Lake Erie
Fisheries Assessment Unit
Report 1986-4

Lake Erie Angler Diary Programme, 1985

Les Sztramko
Ontario Ministry of Natural Resources
Lake Erie Fisheries Assessment Unit
R.R. #2, Wheatley, Ontario N0P 2P0

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Ontario
Ministry of Natural Resources
Hon. Vincent G. Kerrio
Minister
Mary Mogford
Deputy Minister

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Note: The identification of specific lures in this report is for information only and does not imply endorsement by the Ontario Ministry of Natural Resources.

ABSTRACT

In 1985, a volunteer diary programme with boating anglers was conducted on Lake Erie to obtain catch and effort data, particularly in areas unable to be surveyed by roving creel surveys.

Seven of the 31 charter boat diarists (23% response), and 59 of the 141 non-charter boat diarists (42% response) submitted acceptable diaries. These respondents conducted 838 fishing trips in 6 relatively discrete fisheries of Lake Erie: Western Basin - walleye (Stizostedion vitreum vitreum); Central Basin - pacific salmon (Oncorhynchus sp), walleye; Long Point - pacific salmon; Inner Long Point Bay - smallmouth bass (Micropterus dolomieui); Nanticoke - smallmouth bass; Port Colborne- smallmouth bass.

Although the fishing season extended from April until October, 93% of all fishing trips were conducted in June (18% of the total), July (57%) and August (18%).

Generally, the highest success rates for coho salmon (Oncorhynchus kisutch) occurred during July in the areas north-east of Erieau, south of Port Stanley and east and north of Long Point. Highest success rates for walleye occurred during July west of Pelee Island, north-east of Erieau and south-west of Port Stanley.

An evaluation of this programme suggests that catch and effort data were reported accurately and recommendations are made for improving this cost-effective index programme.

INTRODUCTION

In 1985, the Ontario Ministry of Natural Resources expanded the angler diary programme to include members of angling clubs and the general angling public. Initiated with charter boat operators in 1984 (Sztramko 1986), the programme was broadened in scope because the information to be gained from charter boat operators (n=35) was limited in relation to that potentially available from angling club members (n=800) and the general fishing public.

Angler diary programmes are considered to be a cost-effective means of monitoring fisheries particularly in examining trends and corroborating information from other sources (Green 1985).

The objectives of this programme were to:

1) obtain catch and effort data and, information on fishing techniques from boating anglers on Lake Erie, particularly in areas unable to be monitored by roving creel surveys.
2) evaluate the statistical reliability of data collected by participants and recommend improvements for future programmes.

METHODS

In April, executives of the various clubs were contacted and meetings arranged at which the diary programme was presented and volunteers were enlisted. From the eight clubs, 141 members volunteered to keep diaries. As the fishing season progressed, names of additional potential non-club diarists were obtained and these people were contacted to participate in future programmes. Thirty-one charter boat operators also were sent diary packages. All volunteers were provided with diaries, and logistical information including the toll free number of the programme co-ordinator. They were encouraged to contact the co-ordinator if any problems arose, to obtain additional diaries, or to report any unusual occurrences in the fishery. Generalized fishing areas were reported on a standardized lakewide grid system (Figure 1).

Instructions for completing diaries were provided at the front of each diary (Appendix B.1) and diarists were asked to complete one page of the diary (Appendix B.2) for each completed fishing trip.

By mid-November diarists were sent self-addressed, pre-stamped envelopes and asked to submit their diaries for analysis. After delinquent diarists were contacted by mail and telephone, a total of 66 diaries were collected.

Data from diaries were analyzed on an IBM 4381 computer via the SAS (Statistical Analysis System) package.

After diaries were photocopied, original diaries were returned to participants with a personalized computer summary of the fishing activities for the season. Summaries were similar to the pooled versions shown in Appendix A.1 and included basic catch, effort, and angling success information by area and month.

As an additional incentive, participants submitting properly completed diaries were given a crested souvenir baseball cap.

Although data including location, date, time fished, number of lines, and numbers of fish kept and released (Appendix B.2) were mandatory, reporting of additional information was left to individual discretion. It was considered undesirable to jeopardize the collection of critical catch/effort information by imposing too great of a demand on volunteers.

During discussions with diarists it was decided that individual fishing summaries would be treated confidentially, available only to the person who submitted that particular diary. On the other hand public information would represent the pooled (combined) results of all diarists. In this respect, the most desired information --- best fishing times and locations, would be published and available to all. Furthermore, by combining angling success rates of all diarists, pooled success rates would be more representative of relative species abundance. Also year-to-year comparisons would be more meaningful as readers would not be distracted by extreme individual values.

When interpreting trends in success rates, readers are advised to examine either the pooled charter boat operator summaries or the pooled non-charter boat summaries separately. Because the proportion of charter boat diarists to non-charter boat diarists could change from year to year, variations in success rates combining non-charter boat and charter boat diarists could be due to annual variations in the relative representation of these two groups.

The programme's effectiveness as an index of relative abundance of fish populations was evaluated by comparing angler success rates from diarists with those obtained from on-water roving creel surveys. Furthermore, variation in reported angler success rates, as

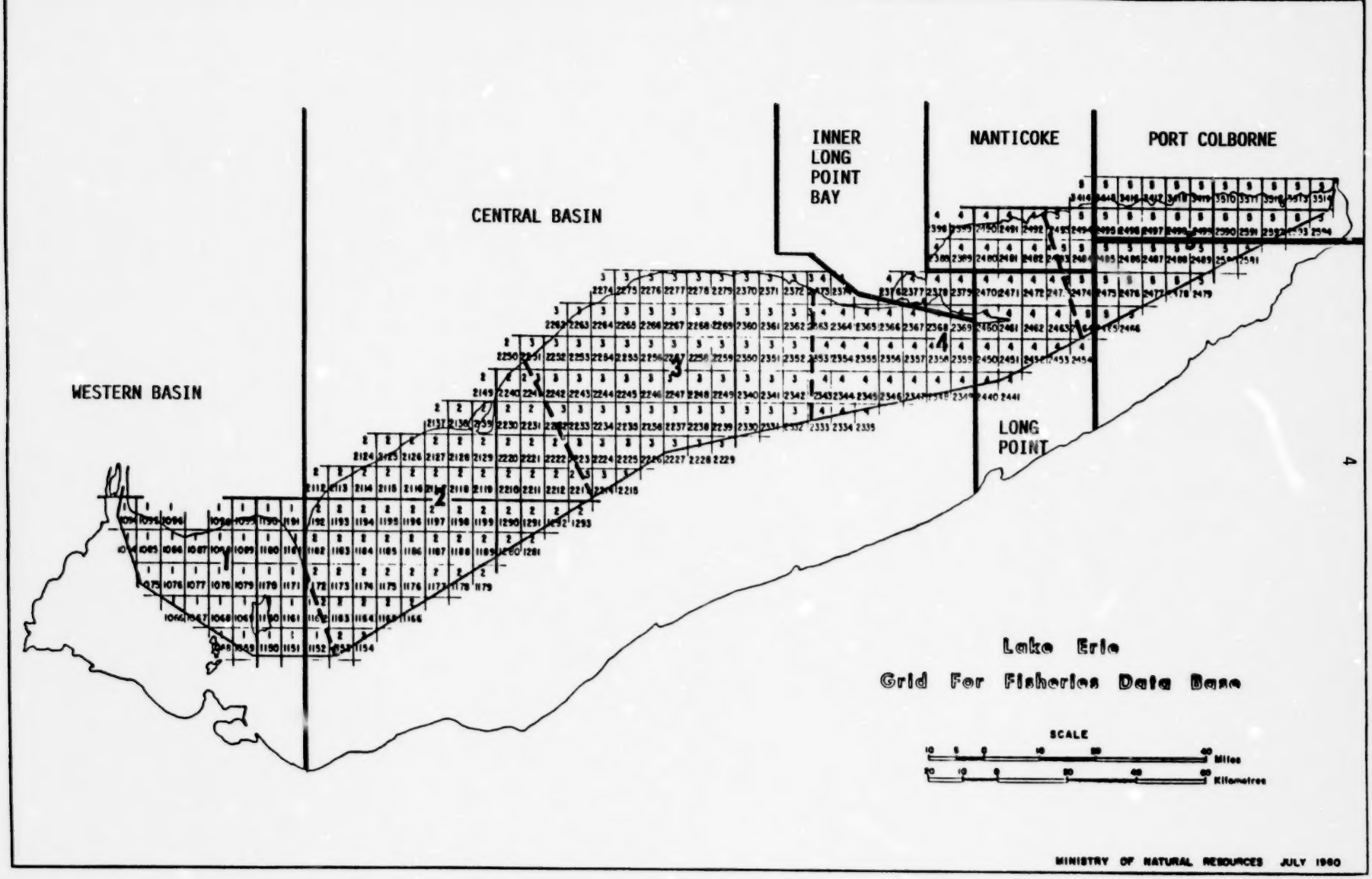

Figure 1. Six generalized diary fishing areas on Lake Erie, 1985.

measured by the coefficient of variation (C.V. = $\frac{s}{\bar{x}}$ x 100%), was considered in light of known characteristics in selected fisheries

In assessing relative variation of success rates it is recognized that fisheries for different species, i.e., bass versus salmon, probably have characteristic coefficients of variation. (See Recommendation #4.) As such, among-area comparisons should be restricted to individual species. However, lacking sufficient data to make within-species/among-area comparisons, it was decided to assume that coefficents of variation were not different among species to gauge the effect of environmental factors on variability in success rates.

The measure of angling success rate or number of fish caught per rod-hour (CUE) used throughout this report represents all anglers regardless of species sought and in this respect is only an approximation of individual species relative abundance. It was not possible to partition angling effort directed at individual species. For example, Central Basin or Long Point salmon anglers would catch coho salmon (Oncorhynchus kisutch), chinook salmon (O. tshawytscha), rainbow trout (Salmo gairdneri), yellow pickerel[1] (walleye) (Stizostedion vitreum vitreum) and freshwater drum (Aplodinotus grunniens) on the same gear while specifically fishing for salmon.

[1] Yellow pickerel is the preferred common name among Ontario anglers for this species and is recognized as such by the Ministry of Natural Resources. However, the international users of this report recognize the common name walleye (Robins et al. 1980) which is the name used throughout this report.

RESULTS AND DISCUSSION

General Observations

Seven of 31 charter boat diarists and 59 of 141 non-charter boat diarists submitted acceptable diaries representing response rates of 23% and 42% respectively. The overall response rate was 38%.

As individual participant's results were treated confidentially, only pooled summaries are presented in Appendix A.1.

In 1985, diarists conducted 838 fishing trips in six discrete areas of Lake Erie: 1) Western Basin, 2) Central Basin, 3) Inner Long Point Bay, 4) Long Point, 5) Nanticoke and 6) Port Colborne (Figure 1). Grid-specific distribution of effort is presented in Figure 2. The following species were the main ones sought in each area: walleye and smallmouth bass (Micropterus dolomieui) - Western Basin; coho and chinook salmon, rainbow trout and walleye (as available) - Central Basin and Long Point; smallmouth bass, yellow perch (Perca flavescens) and northern pike (Esox lucius) - Inner Long Point Bay; smallmouth bass - Nanticoke and Port Colborne.

According to the following, the majority (57%) of fishing trips representing 60% of the total angling effort were conducted in July followed by June (18%) and August (18%):

Month	Trips (number)	Effort (rod-hours)
April	1	10
May	16	192
June	156	2,087
July	476	7,420
August	154	2,132
September	33	520
October	2	28
Total	838	12,389

It should also be noted from the above that 93% of all trips and total angling effort were expended during June, July and August.

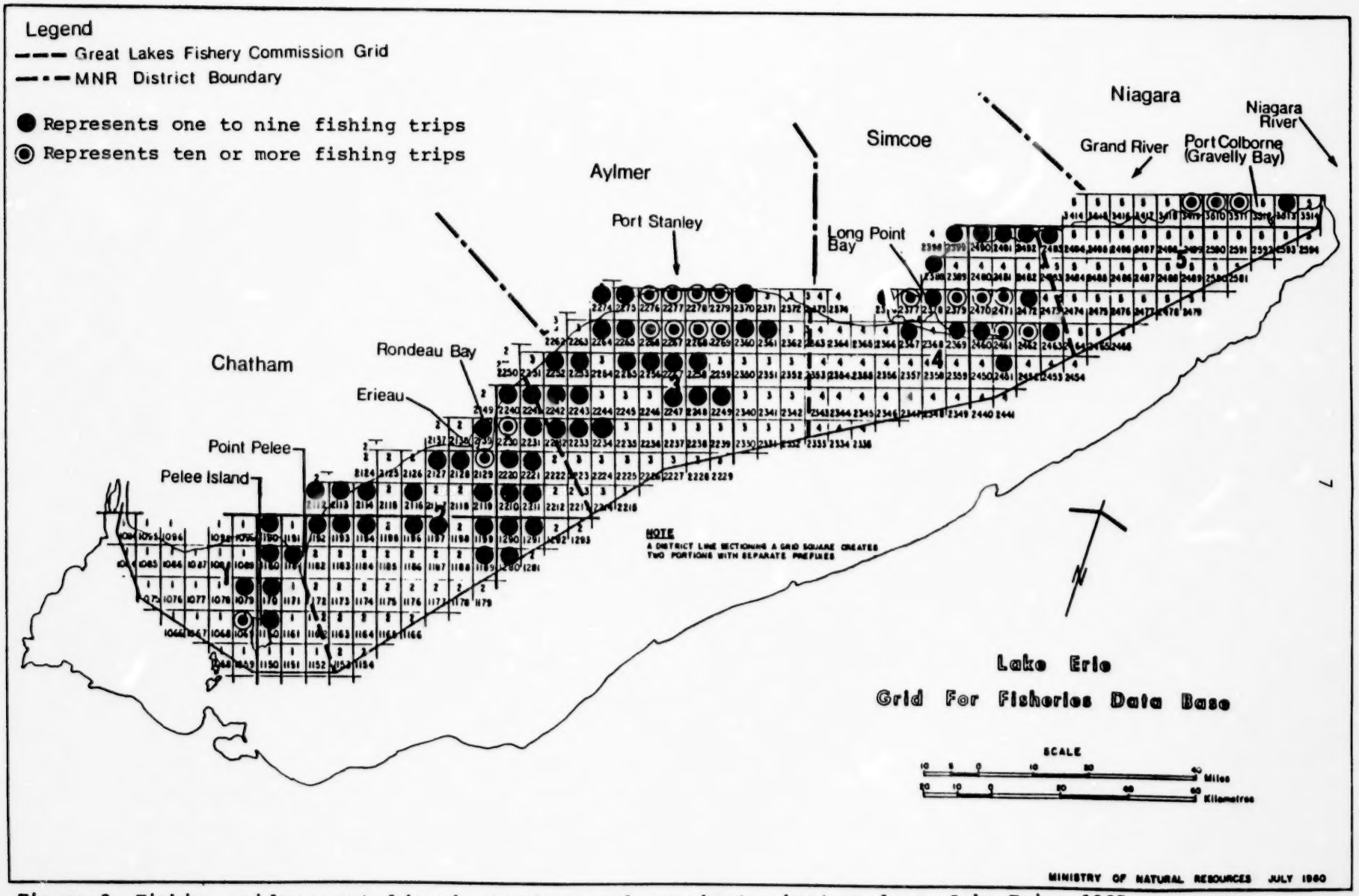

Figure 2. Fishing grids reported by charter boat and non-charter boat anglers, Lake Erie, 1985.

Western Basin

Of the total angling effort, 44% was expended in July (Table 1) and it resulted in 74% of the walleye harvest and 94% of the smallmouth bass harvest (Table 2).

In general, the highest success rates occurred in July for walleye (1.934 fish caught/rod-hour) and smallmouth bass (0.145) (Table 3). The best (in terms of success rate) fishing location for walleye during July (where 5 or more trips were conducted) was grid 1069 (LEFAU 1985; Figure 3).

More detailed information is presented in Appendix A.1.

Fishing methods for walleye remained similar to previous years with anglers casting weight-forward spinners, baited with worms, for bottom walleye and trolling Hot'n Tot and Wiggle Wart plugs to catch walleye suspended in the water column.

Central Basin

Sixty-four percent of total angling effort was exerted during July (Table 1) and it produced 76% of each of the coho salmon and rainbow trout harvests and 60% of the walleye harvest (Table 2).

Generally, the highest success for coho salmon and rainbow trout occurred during July, and that for walleye in June (Table 3). The June rate for walleye was marginally better than July; September's rate was not considered representative due to the low number of trips conducted (Table 1).

The best fishing locations, in descending order of success rate, for coho salmon during June were grids 2267 and 2277 and during July were grids 2268, 2278 and 2240 (LEFAU 1985; Figure 3). The best locations for walleye during June were grids 2277 and 2267, and in July were grids 2243, 2252 and 2266.

More detailed information is presented in Appendix A.1.

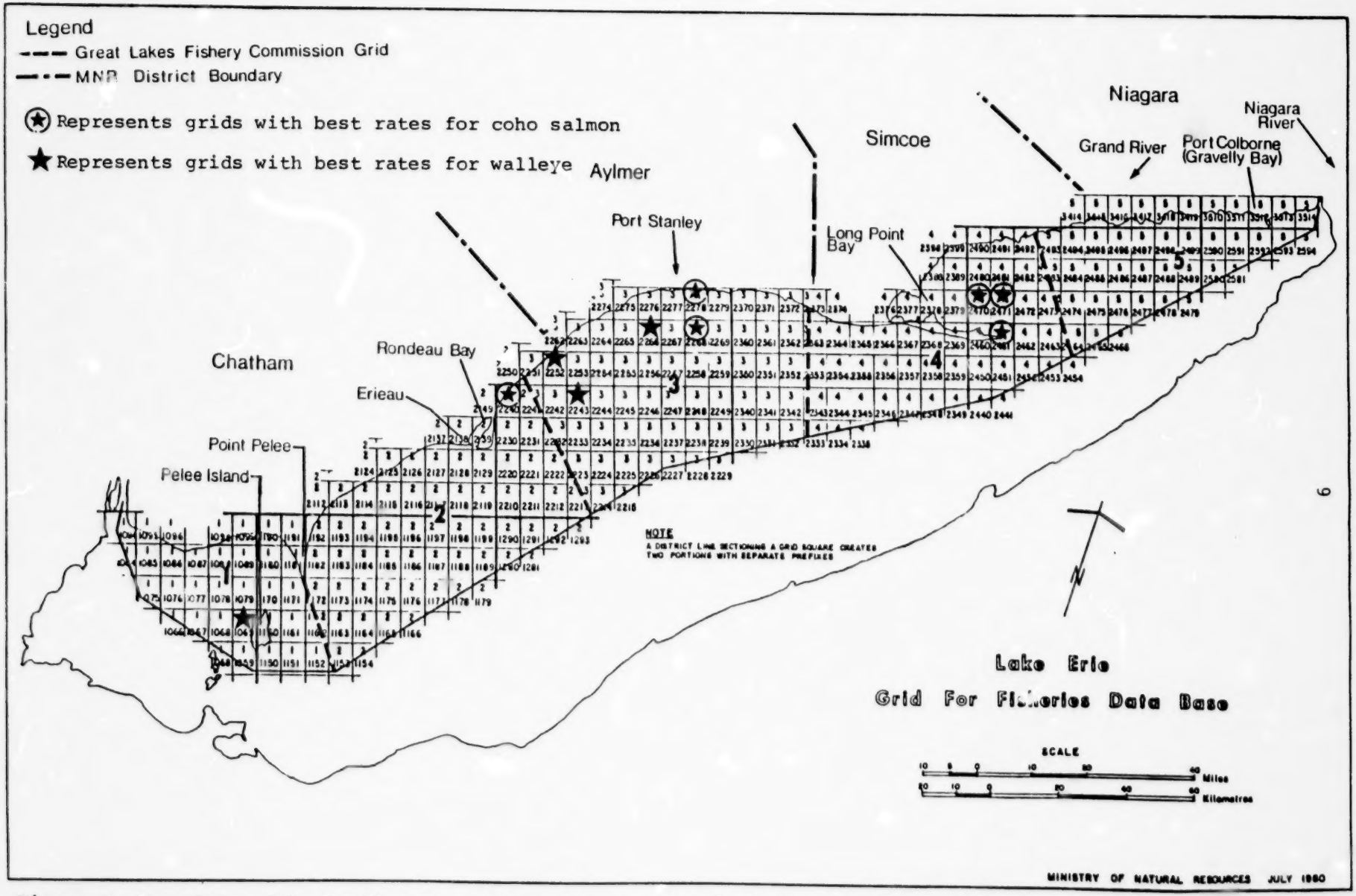

Figure 3. Locations with the highest angling success rates in July, Lake Erie, 1985.

Table 1. Distribution of angling effort in rod-hours by all diarists by area and month in Lake Erie, 1985. The number of trips is in brackets.[a]

Area	Month							
	April	May	June	July	August	September	October	Total
Western Basin	0	0	109(8)	152(15)	76(3)	6(1)	0	343(27)
Central Basin	0	152(12)	1,138(92)	3,442(243)	392(30)	236(14)	0	5,359(391)
Inner Long Point Bay	0	18(2)	483(25)	1,817(61)	575(22)	185(7)	0	3,078(117)
Long Point	0	0	193(13)	1,679(97)	888(52)	8(1)	0	2,768(163)
Nanticoke	10(1)	22(2)	89(8)	48(5)	60(2)	33(2)	28(2)	290(22)
Port Colborne	0	0	75(10)	281(55)	142(45)	53(8)	0	551(118)
Total	10(1)	192(16)	2,087(156)	7,420(476)	2,132(154)	520(33)	28(2)	12,389(838)

[a] Relative comparisons of angling effort among areas should not be made as the number of diarists responding varied considerably with area.

Table 2. Numbers of selected species harvested by non-charter boat diarists (N) and charter boat diarists (C) by area and month in Lake Erie, 1985.[a]

Area	Species	Month															
		April		May		June		July		August		September		October		Total	
		N	C	N	C	N	C	N	C	N	C	N	C	N	C	N	C
Western Basin	Walleye	-	-	-	-	15	31	59	196	37	-	8	-	-	-	119	227
	Smallmouth bass	-	-	-	-	1	0	1	16	0	-	0	-	-	-	2	16
Central Basin	Coho salmon	-	-	0	0	26	2	85	15	3	0	1	0	-	-	115	17
	Chinook salmon	-	-	1	1	2	0	2	1	0	0	0	0	-	-	5	2
	Rainbow trout	-	-	0	0	10	1	41	6	3	0	1	0	-	-	55	7
	Walleye	-	-	5	2	88	72	120	267	24	20	7	38	-	-	244	399
Inner Long Point Bay	Smallmouth bass	-	-	-	-	112	107	99	810	76	142	0	58	-	-	287	1,117
	Yellow perch	-	-	2	-	104	0	151	0	73	0	48	0	-	-	378	0
	Northern pike	-	-	0	-	18	0	4	1	1	7	0	0	-	-	23	8
Long Point	Coho salmon	-	-	-	-	7	-	414	90	153	27	0	-	-	-	574	117
	Chinook salmon	-	-	-	-	1	-	9	21	16	2	0	-	-	-	26	23
	Rainbow trout	-	-	-	-	0	-	39	2	32	2	0	-	-	-	71	4
	Pink salmon	-	-	-	-	0	-	69	10	47	2	0	-	-	-	116	12
	Walleye	-	-	-	-	0	-	0	0	1	0	0	-	-	-	1	0
Nanticoke	Smallmouth bass	0	-	0	-	0	-	4	-	5	-	4	-	-	-	13	0
Port Colborne	Smallmouth bass	-	-	-	-	7	-	124	-	192	-	0	-	7	-	330	-

[a] Dash indicates that no angling effort was expended.

Table 3. Angling success rates for selected species in number of fish caught per rod-hour by all diarists by area and month in Lake Erie, 1985.[a]

Area	Species	Month							
		April	May	June	July	August	September	October	All
Western Basin	Walleye	-	-	0.422	1.934	0.517	1.333	-	1.130
	Smallmouth bass	-	-	0.009	0.145	0.000	0.000	-	0.067
Central Basin	Coho salmon	-	0.000	0.025	0.034	0.008	0.008	-	0.028
	Chinook salmon	-	0.013	0.002	0.001	0.000	0.000	-	0.001
	Rainbow trout	-	0.000	0.011	0.015	0.008	0.004	-	0.013
	Walleye	-	0.046	0.141	0.114	0.112	0.191	-	0.121
Inner Long Point Bay	Smallmouth bass	-	0.000	0.573	0.562	0.389	0.314	-	0.513
	Yellow perch	-	0.222	0.420	0.137	0.217	0.612	-	0.225
	Northern pike	-	0.000	0.058	0.004	0.016	0.000	-	0.014
Long Point	Coho salmon	-	-	0.036	0.309	0.203	0.000	-	0.255
	Chinook salmon	-	-	0.005	0.018	0.020	0.000	-	0.018
	Rainbow trout	-	-	0.000	0.024	0.038	0.000	-	0.027
	Pink salmon	-	-	0.000	0.058	0.070	0.000	-	0.057
	Walleye	-	-	0.000	0.000	0.001	0.000	-	0.000
Nanticoke	Smallmouth bass	0.300	0.727	0.000	0.271	0.084	0.121	0.250	0.166
Port Colborne	Smallmouth bass	-	-	0.120	0.548	1.647	0.057	-	0.724

[a] Dash indicates that no angling effort was expended.

Table 4. Angling success rates for selected species in number of fish caught per rod-hour by non-charter boat diarists (N) and charter boat diarists (C) by area and month in Lake Erie, 1985.[a]

Area	Species	Month															
		April		May		June		July		August		September		October		Total	
		N	C	N	C	N	C	N	C	N	C	N	C	N	C	N	C
Western Basin	Walleye	-	-	-	-	0.385	0.443	1.054	2.448	0.517	-	1.333	-	-	-	0.686	1.602
	Smallmouth bass	-	-	-	-	0.026	0.000	0.018	0.219	0.000	-	0.000	-	-	-	0.011	0.127
Central Basin	Coho salmon	-	-	0.000	0.000	0.026	0.014	0.038	0.022	0.010	0.000	0.013	0.000	-	-	0.031	0.017
	Chinook salmon	-	-	0.008	0.042	0.002	0.000	0.001	0.001	0.000	0.000	0.000	0.000	-	-	0.001	0.002
	Rainbow trout	-	-	0.000	0.000	0.011	0.007	0.018	0.008	0.010	0.000	0.006	0.000	-	-	0.015	0.007
	Walleye	-	-	0.039	0.083	0.089	0.500	0.046	0.331	0.080	0.222	0.044	0.487	-	-	0.058	0.349
Inner Long Point Bay	Smallmouth bass	-	-	0.000	-	0.525	0.650	0.401	0.597	0.425	0.371	0.000	0.337	-	-	0.436	0.543
	Yellow perch	-	-	0.222	-	0.684	0.000	0.767	0.000	0.648	0.000	9.040	0.000	-	-	0.821	0.000
	Northern pike	-	-	0.000	-	0.094	0.000	0.018	0.001	0.010	0.018	0.000	0.000	-	-	0.043	0.004
Long Point	Coho salmon	-	-	-	-	0.036	-	0.291	0.427	0.189	0.337	0.000	-	-	-	0.237	0.403
	Chinook salmon	-	-	-	-	0.005	-	0.006	0.095	0.020	0.025	0.000	-	-	-	0.011	0.077
	Rainbow trout	-	-	-	-	0.000	-	0.027	0.009	0.040	0.025	0.000	-	-	-	0.029	0.013
	Pink salmon	-	-	-	-	0.000	-	0.060	0.045	0.074	0.025	0.000	-	-	-	0.060	0.040
	Walleye	-	-	-	-	0.000	-	0.000	0.000	0.001	0.000	0.000	-	-	-	0.000	0.000
Nanticoke	Smallmouth bass	0.300	-	0.727	-	0.000	-	0.271	-	0.084	-	0.121	-	0.250	-	0.166	-
Port Colborne	Smallmouth bass	-	-	-	-	0.120	-	0.548	-	1.647	-	0.057	-	-	-	0.724	-

[a] Dash indicates that no angling effort was expended.

The 1985 charter boat success rates (Table 4) for coho salmon declined by 91% as compared to 1984. Although part of this decline may be explained by 26% fewer coho salmon which were stocked in 1984 versus 1983 (Anon. 1986), part of this decline appears to be related to weather. In 1985, frequent and strong winds changed the normal temperature regimes in the Central Basin, forcing the thermocline down in the water column, affecting the distribution of salmon, and impairing the ability of anglers to get out and quickly locate concentrations of salmon during periods of good weather. Conversely, 1985 walleye success rates (Table 4) increased approximately six-fold over 1984; this increase probably reflected the continuing expansion of Western Basin walleye populations into the Central Basin and the fact that during the summer, walleye are not as dependent on thermocline temperatures as salmon are. In addition, improved angling techniques such as those described below were probably a factor.

During July, when the thermocline was present, anglers caught salmon on black, silver, blue and yellow spoons at about 7.6-9.1 metres in 15.2-18.3 metres of water. Due to the relatively poor salmon fishing, as compared to the good walleye fishing, anglers opportunistically turned their attention to walleye.

A charter boat operator, approximately 32 km east of Erieau, fished for walleye with planer boards. This technique employed a combination of planer boards and Pink Ladies to get the lures (Manistees and Fire-Dot Grizzlies) to fishing depths of 5.2 m. Planer boards were used to take the lures away from the boat and minimize the possibility of boat/motor noise frightening the fish away.

Inner Long Point Bay

Of the total angling effort, 59% was exerted in July (Table 1) resulting in 65% of the smallmouth bass harvest and 40% of the yellow perch harvest (Table 2).

While the highest success rates for smallmouth bass occurred during the latter part of June and July, the highest rate for yellow perch was in June (Table 3). The rate for yellow perch in September was not considered representative due to the low number of fishing trips.

More detailed information is presented in Appendix A.1.

Success rates for smallmouth bass in Inner Long Point remained stable from 1984 to 1985 as evidenced by the following:

	Success Rate (Number of fish caught per rod-hour)	
	Charter boat anglers	General angling population
1985	0.542	0.287 (LEFAU 1985)
1984	0.549	0.286 (LEFAU 1984)

Generally, bass anglers used minnows and worms during the first part of the season (pers. comm. Delbert Miller) switching to trolled silver or silver/black, gold/black rapalas, yellow/white streamer flies, yellow/red or yellow/black Sonic lures later on. Casting with Shad Raps was also done. During the last week of July and into August, softshell crayfish were used almost exclusively. Smallmouth bass generally were found in the Bait Island area during the first week of July. Then, they migrated to the south side of the Inner Bay, the main channel and eventually out of the Inner Bay to Pottohawk Point and Bluff Bar as Inner Bay water temperatures exceeded the final preferendum of 20.3^{o} - 21.3^{o} C (Carlander 1977) for smallmouth bass.

Long Point

Sixty-one percent of the total angling effort was expended during July (Table 1) resulting in 73%, 61%, 55%, and 62% of the coho salmon, chinook salmon, rainbow trout and pink salmon harvests respectively (Table 2). The remainder of effort and harvest was essentially in August.

Although the highest success rates for coho salmon occurred during July, marginally better success rates for chinook salmon, rainbow trout and pink salmon happened in August (Table 3). Best monthly fishing locations, in descending order of success rate, for coho salmon were: grids 2461 (June); 2471, 2470, 2461 (July); and 2461 (August) (LEFAU 1985; Figure 3).

More detailed information is presented in Appendix A.1.

The charter boat diarist from Long Point experienced a 22% decline in success rates from 1984 (0.518 coho salmon caught/rod-hour) to 1985 (0.403). This decline appears to mirror the 26% reduction in coho salmon stocking from 1983 to 1984 (Anon. 1986). Strong and frequent winds which affected the thermocline in the shallow (mean depth 18.5 m) Central Basin and consequently the success rates for salmon, did not appear to affect the deeper (45 m) Long Point fishery.

The Long Point walleye fishery which appeared to be developing in 1984 (success rate = 0.006 fish caught/rod-hour) was non-existent in 1985. This was surprising given the continuing improvement in Central Basin success rates.

Long Point salmon anglers enjoyed good success using silver or blue manistees/silver dodger combinations or green fly/green dodger combinations fished at depths of 12.2-24.4 m in 24.4 to 54.9 m of water. Effective fishing depth and total depth of water fished increased as the season progressed from early July to mid-August.

Nanticoke

In the Nanticoke area, angling effort was distributed over a longer fishing season than the other areas; however, 69% of the total effort was exerted during the months of June, August and September (Table 1) and this seasonal effort resulted in 69% of the total smallmouth bass harvest (Table 2).

The highest success rate for smallmouth bass appears to have occurred in July — the success rates during April and May are not considered representative due to the low number of fishing trips (Table 3).

More detailed information is available in Appendix A.1.

Port Colborne

Seventy-eight percent of angling effort occurred during the months of July and August (Table 1) and resulted in 96% of the smallmouth bass harvest (Table 2).

Success rates for smallmouth bass were excellent in August followed by very good rates in July (Table 3).

Best monthly fishing locations, in descending order of success rate, for smallmouth bass were: grids 3511, 3510 (June); 3419, 3510, 3511 (July); and 3510, 3419, 3511 (August) (LEFAU 1985).

More detailed information is presented in Appendix A.1.

Program Evaluation

In fisheries where comparisons could be made, charter boat diarists usually caught fish from 1.5 to 3.4 times faster than non-charter boat diarists (Table 5). Furthermore, in Inner Long Point Bay, where an on-water roving creel survey was conducted simultaneously with the diary programme, charter boat diarists and non-charter boat diarists caught smallmouth bass 2 times and 1.4 times

Table 5. Comparative mean angler success rates for non-charter boat diarists (N) and charter boat diarists (C) on Lake Erie, 1985.[a]

Area	Parameter	Species					
		Walleye		Coho salmon		Smallmouth bass	
		N	C	N	C	N	C
Western Basin	$\bar{x}$	0.623	1.602				
	s	0.178	-				
	n	2	1				
	c.v.	28%	-				
Central Basin	$\bar{x}$	0.064	0.215	0.027	0.027		
	s	0.060	0.254	0.020	0.018		
	n	21	3	20	3		
	c.v.	93%	118%	74%	67%		
Long Point	$\bar{x}$			0.212	0.372		
	s			0.088	0.045		
	n			10	2		
	c.v.			42%	12%		
Inner Long Point Bay	$\bar{x}$					0.374	0.542
	s					0.279	0.008
	n					9	2
	c.v.					75%	2%
Nanticoke	$\bar{x}$					0.605	
	s					0.482	
	n					3	
	c.v.					80%	
Port Colborne	$\bar{x}$					0.599	
	s					0.284	
	n					7	
	c.v.					47%	

[a] In number of fish caught per rod-hour.

faster respectively than the general angling public; Sztramko (1986) noted that Inner Long Point Bay charter boat diarists in 1984 caught smallmouth bass 1.9 times faster than the general angling public. In the Western Basin, charter boat diarists and non-charter boat diarists caught walleye 2.7 times and 1.04 times faster respectively than the general angling public.

With the exception of the Central Basin walleye fishery, variation in success rates among diarists was usually lower for charter boat diarists than for non-charter boat diarists (Table 5).

Lastly, variation in success rates was generally least in Inner Long Point Bay, followed by Long Point and the Central Basin (Table 5). Similar variation patterns among areas were displayed by charter boat diarists in 1984 (Sztramko, 1986).

The above is consistent with angling success being a function of skill, knowledge and experience. Given that charter boat diarists are the most knowledgeable and skillful component of the angling population, it is understandable that they reported the highest success rates. In ranking success, they were followed by non-charter boat diarists. This is a group of anglers which, for whatever reason, was probably more motivated than the general angling public to maintain records. Their higher motivational level probably reflects a general philosophy of life and in this regard the higher angling success rates which they experienced over the general angling population is not suprising.

Differences in variation of success rates among areas (See caveat, para. 3, page 5) to a great degree probably reflect the environmental characteristics of the respective fisheries. Least variable success rates were found in shallow and protected (mean depth 0.996 m; surface area 6,979 hectares) Inner Long Point Bay with its areally and seasonally well-defined smallmouth bass fishery. The

Long Point salmon fishery, ranked next most variable, is found in the deepest part of the Eastern Basin (37-55 m). Here, thermal stratification, with which the salmon fishery is usually associated, normally occurs at 12-18 metres. Thermal stratification in the Long Point area generally would be more stable than that in the shallower Central Basin (mean depth 18.5 m) which would be subject to vertical mixing caused by wind action. Additional variability in Central Basin success rates would be caused by its vast surface area (approximately 800,000 hectares) and the longer time required to locate concentrations of fish.

In summary, it appears that catch and effort information were reported accurately by diarists. Differences in success rates and their relative variation among angler groups and among fisheries are consistent with known characteristics of the respective fisheries.

RECOMMENDATIONS

After 2 years, this programme has demonstrated potential as a reliable and inexpensive means of indexing sport fish populations. In addition, it has provided a communication network for both participants and fisheries managers to monitor developments in the fisheries.

Future diary programmes should consider incorporating the following:

1. Enlist additional charter boat and non-charter boat diarists in all fisheries to increase the sample size and representativeness of the data.
2. Recruiting drives should focus on angling clubs, establishing liaison with a club representative to reduce contact time and handling costs.
3. Where possible, diary programmes should be statistically compared to on-water roving creel surveys. Reliable time-series of comparative data may indicate the potential for reducing or eliminating annual roving creel surveys in stable fisheries. Survey objectives focusing on assessment of trends in relative abundance, could be achieved by employing inexpensive diary programs with occasional on-water creel surveys to verify accuracy.
4. Test the hypothesis that there is no difference in coefficients of variation for success rates of different species.
5. Promptly analyze each year's diaries returning personalized summaries and reports to encourage future participation.
6. For the Long Point fishery, incorporate a detailed map of Long Point opposite each page of trip information to allow diarists to report boat counts and permit the estimation of total angling effort. This fishery has grown to the extent where instantaneous

week-day and week-end day boat counts of 80 and 200 boats respectively have been corroborated on several occasions (pers. comm. Delbert Miller).

ACKNOWLEDGEMENTS

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Brant Rod and Gun Club
Delhi Fish and Game Club
Lake Erie Salmon and Trout Club
Long Point Area Fish and Game Club
Pointe aux Pins Salmon and Trout Club
Port Colborne and District Conservation Club
Port Dover Fish and Game Protective Association
Simcoe and District Fish and Game Club

I am equally grateful to the professional charter boat operators and interested individuals without whom this programme would not have been possible.

Lastly, I would like to thank Janice Metz for keypunching and verifying the data, Bob Sutherland for analyzing them on computer, Debbie Schroeder for typing the manuscript and the following people for reviewing it: Wally Balogh, Warren Dunlop, Richard Loblaw, Pauline Monck, Jerry Paine, and Art Timmerman.

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Appendix A.1 Explanatory notes regarding catch, effort, and angling success rate summaries which follow.

1. To reduce printing costs, only the following summaries are provided: 1) overall combined charter boat and non-charter boat, (page 25), 2) grid-specific non-charter boat (page 26) and charter boat (page 34) and 3) grid-specific and month-specific results for charter boat and non-charter boat diarists (page 36) in the Central Basin —— the fishery with the largest area and most variable environmental conditions. Additional detailed information is available upon request from the Lake Erie Fisheries Station at Wheatley, Ontario.

2. POOLED means combined. For example, pooled in the GRID column means that all grids were combined to produce the results in that particular species' row.

3. OBS represents observation number. It is included only for reference and is not part of the catch/effort output.

4. GRID represents a four-digit code which indicates the general fishing area reported on the reference map in Figure 1.

5. SPECIES represents the fish which were caught and/or kept. Yellow pickerel is referred to as walleye (Stizostedion vitreum vitreum) throughout the report.

6. NUMBER OF TRIPS represents the number of trips undertaken in a particular grid. As it was not possible to partition the number of trips which were directed at particular species, the number of trips which are attributed to a particular species in the output are essentially a repetition of the total number of trips reported in the grid where that species was caught.

7. EFFORT represents angling effort and is derived by multiplying the number of lines that were in the water by the actual fishing time. Travel time during the fishing trip is not included in effort. The comment in (6) above concerning partitioning of trips also applies to effort.

8. RODS PER TRIP represents the mean number of rods (lines) which were fished per trip in a given area. The comment in (6) above concerning partitioning of trips also applies to rods per trip.

9. CAUGHT/KEPT PER ROD-HOUR is the measure of angling success rate and represents the number of fish which were caught/kept per rod-hour of angling effort.

1985 ANGLER DIARY PROGRAM FOR LAKE ERIE

ID=POOLED NAME=POOLED MONTH=POOLED AREA=POOLED

OBS	GRID	SPECIES	NUMBER CAUGHT	NUMBER KEPT	NUMBER OF TRIPS	EFFORT (ROD-HOURS)	RODS PER TRIP	CAUGHT PER ROD-HOUR	KEPT PER ROD-HOUR	ROD-HOURS PER FISH CAUGHT
1	POOLED	POOLED	7701	5732	838	12389	2.9	0.622	0.463	2
2	POOLED	AMERICAN EEL	1	0	838	12389	2.9	0.000	0.000	12389
3	POOLED	ATLANTIC SALMON	1	1	838	12389	2.9	0.000	0.000	12389
4	POOLED	BLACK CRAPPIE	12	9	838	12389	2.9	0.001	0.001	1032
5	POOLED	BLUEGILL	12	12	838	12389	2.9	0.001	0.001	1032
6	POOLED	BOWFIN	1	0	838	12389	2.9	0.000	0.000	12389
7	POOLED	CHANNEL CATFISH	16	8	838	12389	2.9	0.001	0.001	774
8	POOLED	CHINOOK	56	56	838	12389	2.9	0.005	0.005	221
9	POOLED	COHO SALMON	858	824	838	12389	2.9	0.069	0.067	14
10	POOLED	FRESHWATER DRUM	730	119	838	12389	2.9	0.059	0.010	17
11	POOLED	LAKE TROUT	9	9	838	12389	2.9	0.001	0.001	1377
12	POOLED	LARGEMOUTH BASS	8	8	838	12389	2.9	0.001	0.000	1549
13	POOLED	MASKINONGE	1	0	838	12389	2.9	0.000	0.000	12389
14	POOLED	NORTHERN PIKE	47	34	838	12389	2.9	0.004	0.003	264
15	POOLED	PINK SALMON	159	128	838	12389	2.9	0.013	0.010	78
16	POOLED	PUMPKINSEED	87	26	838	12389	2.9	0.007	0.002	142
17	POOLED	RAINBOW SMELT	1	0	838	12389	2.9	0.000	0.000	12389
18	POOLED	RAINBOW TROUT	144	137	838	12389	2.9	0.012	0.011	86
19	POOLED	ROCK BASS	648	290	838	12389	2.9	0.052	0.023	19
20	POOLED	SMALLMOUTH BASS	2064	1779	838	12389	2.9	0.167	0.144	6
21	POOLED	WHITE BASS	710	575	838	12389	2.9	0.057	0.046	17
22	POOLED	WHITE CRAPPIE	1	0	838	12389	2.9	0.000	0.000	12389
23	POOLED	WHITE PERCH	24	19	838	12389	2.9	0.002	0.002	516
24	POOLED	YELLOW PERCH	1064	700	838	12389	2.9	0.086	0.057	12
25	POOLED	YELLOW PICKEREL	1047	1000	838	12389	2.9	0.085	0.081	12

1985 ANGLER DIARY PROGRAM FOR LAKE ERIE

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OBS	GRID	SPECIES	NUMBER CAUGHT	NUMBER KEPT	NUMBER OF TRIPS	EFFORT (ROD-HOURS)	RODS PER TRIP	CAUGHT PER ROD-HOUR	KEPT PER ROD-HOUR	ROD-HOURS PER FISH CAUGHT
9932	POOLED	POOLED	5337	3683	728	8527	2.5	0.626	0.432	2
9933	POOLED	AMERICAN EEL	1	0	728	8527	2.5	0.000	0.000	8527
9934	POOLED	BLACK CRAPPIE	12	9	728	8527	2.5	0.001	0.001	711
9935	POOLED	BLUEGILL	12	12	728	8527	2.5	0.001	0.001	711
9936	POOLED	BOWFIN	1	0	728	8527	2.5	0.000	0.000	8527
9937	POOLED	CHANNEL CATFISH	12	8	728	8527	2.5	0.001	0.001	711
9938	POOLED	CHINOOK	31	31	728	8527	2.5	0.004	0.004	275
9939	POOLED	COHO SALMON	717	690	728	8527	2.5	0.084	0.081	12
9940	POOLED	FRESHWATER DRUM	567	66	728	8527	2.5	0.066	0.010	15
9941	POOLED	LAKE TROUT	9	9	728	8527	2.5	0.001	0.001	947
9942	POOLED	LARGEMOUTH BASS	8	8	728	8527	2.5	0.001	0.001	1066
9943	POOLED	MASKINONGE	1	0	728	8527	2.5	0.000	0.000	8527
9944	POOLED	NORTHERN PIKE	39	20	728	8527	2.5	0.005	0.003	219
9945	POOLED	PINK SALMON	147	116	728	8527	2.5	0.017	0.014	58
9946	POOLED	PUMPKINSEED	87	20	728	8527	2.5	0.010	0.003	98
9947	POOLED	RAINBOW SMELT	1	0	728	8527	2.5	0.000	0.000	8527
9948	POOLED	RAINBOW TROUT	132	120	728	8527	2.5	0.015	0.015	65
9949	POOLED	ROCK BASS	625	290	728	8527	2.5	0.073	0.034	14
9950	POOLED	SMALLMOUTH BASS	831	646	728	8527	2.5	0.097	0.076	10
9951	POOLED	WHITE BASS	644	514	728	8527	2.5	0.076	0.060	13
9952	POOLED	WHITE CRAPPIE	1	0	728	8527	2.5	0.000	0.000	8527
9953	POOLED	WHITE PERCH	24	19	728	8527	2.5	0.003	0.002	355
9954	POOLED	YELLOW PERCH	1055	695	728	8527	2.5	0.124	0.082	8
9955	POOLED	YELLOW PICKEREL	376	374	728	8527	2.5	0.044	0.044	23
9956	1069	POOLED	71	30	3	35	2.7	2.029	1.600	0
9957	1069	CHANNEL CATFISH	10	8	3	35	2.7	0.286	0.229	4
9958	1069	FRESHWATER DRUM	12	0	3	35	2.7	0.343	0.000	3
9959	1069	WHITE PERCH	1	0	3	35	2.7	0.029	0.000	35
9960	1069	YELLOW PICKEREL	48	48	3	35	2.7	1.371	1.371	1
9961	1079	POOLED	60	18	1	52	4.0	0.385	0.346	3
9962	1079	YELLOW PICKEREL	20	18	1	52	4.0	0.385	0.346	3
9963	1160	POOLED	63	50	5	40	2.2	1.575	1.400	1
9964	1160	FRESHWATER DRUM	1	0	5	40	2.2	0.025	0.000	40
9965	1160	SMALLMOUTH BASS	2	2	5	40	2.2	0.050	0.050	20
9966	1160	WHITE BASS	15	11	5	40	2.2	0.375	0.275	3
9967	1160	WHITE PERCH	6	4	5	40	2.2	0.150	0.100	7
9968	1160	YELLOW PICKEREL	39	39	5	40	2.2	0.975	0.975	1
9969	1170	POOLED	23	13	2	32	3.0	0.730	0.413	1
9970	1170	CHANNEL CATFISH	1	0	2	32	3.0	0.032	0.000	32
9971	1170	FRESHWATER DRUM	0	0	2	32	3.0	0.190	0.000	5
9972	1170	YELLOW PERCH	3	0	2	32	3.0	0.095	0.000	11
9973	1170	YELLOW PICKEREL	13	13	2	32	3.0	0.413	0.413	2
9974	1180	POOLED	2	2	1	6	2.0	0.333	0.333	3
9975	1180	WHITE BASS	2	2	1	6	2.0	0.333	0.333	3
9976	1181	POOLED	7	7	1	12	2.0	0.583	0.583	2
9977	1181	WHITE BASS	6	6	1	12	2.0	0.500	0.500	2
9978	1181	YELLOW PICKEREL	1	1	1	12	2.0	0.083	0.083	12
9979	1189	POOLED	21	14	4	107	2.8	0.197	0.131	5
9980	1189	COHO SALMON	7	7	4	107	2.8	0.066	0.066	15
9981	1189	FRESHWATER DRUM	5	0	4	107	2.8	0.047	0.000	21
9982	1189	RAINBOW TROUT	3	3	4	107	2.8	0.028	0.028	36
9983	1189	WHITE BASS	2	0	4	107	2.8	0.019	0.000	53

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9984	1189	YELLOW PICKEREL	4	4	4	107	2.8	0.038	0.038	27
9985	1192	POOLED	2	2	3	10	1.7	0.200	0.200	5
9986	1192	CHINOOK	1	1	3	10	1.7	0.100	0.100	10
9987	1192	YELLOW PICKEREL	1	1	3	10	1.7	0.100	0.100	10
9988	1193	POOLED	2	0	2	4	1.0	0.500	0.000	2
9989	1193	FRESHWATER DRUM	2	0	2	4	1.0	0.500	0.000	2
9990	1193	YELLOW PICKEREL	0	0	2	4	1.0	0.000	0.000	.
9991	1194	POOLED	2	2	1	2	2.0	1.000	1.000	1
9992	1194	WHITE BASS	1	1	1	2	2.0	0.500	0.500	2
9993	1194	YELLOW PICKEREL	1	1	1	2	2.0	0.500	0.500	2
9994	1196	POOLED	3	0	1	5	1.0	0.667	0.000	2
9995	1196	WHITE BASS	3	0	1	5	1.0	0.667	0.000	2
9996	1197	POOLED	4	4	1	24	3.0	0.167	0.167	6
9997	1197	COHO SALMON	1	1	1	24	3.0	0.042	0.042	24
9998	1197	YELLOW PICKEREL	3	3	1	24	3.0	0.125	0.125	8
9999	1199	POOLED	1	1	1	16	2.0	0.063	0.063	16
10000	1199	YELLOW PICKEREL	1	1	1	16	2.0	0.063	0.063	16
10001	1280	POOLED	1	1	1	7	1.0	0.143	0.143	7
10002	1280	COHO SALMON	1	1	1	7	1.0	0.143	0.143	7
10003	1290	POOLED	4	4	2	29	2.5	0.138	0.138	7
10004	1290	COHO SALMON	2	2	2	29	2.5	0.069	0.069	15
10005	1290	RAINBOW TROUT	2	2	2	29	2.5	0.069	0.069	15
10006	1291	POOLED	1	1	1	2	1.0	0.667	0.667	2
10007	1291	COHO SALMON	1	1	1	2	1.0	0.667	0.667	2
10008	2112	POOLED	29	26	2	6	1.5	4.833	4.333	0
10009	2112	ROCK BASS	1	0	2	6	1.5	0.167	0.000	6
10010	2112	WHITE PERCH	2	0	2	6	1.5	0.333	0.000	3
10011	2112	YELLOW PERCH	26	26	2	6	1.5	4.333	4.333	0
10012	2112	YELLOW PICKEREL	0	0	2	6	1.5	0.000	0.000	.
10013	2113	POOLED	0	0	2	6	1.5	0.000	0.000	.
10014	2113	COHO SALMON	0	0	2	6	1.5	0.000	0.000	.
10015	2113	YELLOW PICKEREL	0	0	2	6	1.5	0.000	0.000	.
10016	2114	POOLED	1	0	1	4	2.0	0.250	0.000	.
10017	2114	FRESHWATER DRUM	1	0	1	4	2.0	0.250	0.000	4
10018	2116	POOLED	6	2	1	24	2.0	0.250	0.083	4
10019	2116	FRESHWATER DRUM	3	0	1	24	2.0	0.125	0.000	8
10020	2116	WHITE BASS	2	1	1	24	2.0	0.083	0.042	12
10021	2116	YELLOW PICKEREL	1	1	1	24	2.0	0.042	0.042	24
10022	2118	POOLED	0	0	1	5	1.0	0.000	0.000	.
10023	2118	COHO SALMON	0	0	1	5	1.0	0.000	0.000	.
10024	2119	POOLED	2	1	2	19	1.5	0.108	0.054	9
10025	2119	RAINBOW TROUT	1	0	2	19	1.5	0.054	0.000	19
10026	2119	YELLOW PICKEREL	1	1	2	19	1.5	0.054	0.054	19
10027	2127	POOLED	5	0	3	39	2.3	0.128	0.000	8
10028	2127	COHO SALMON	0	0	3	39	2.3	0.000	0.000	.
10029	2127	FRESHWATER DRUM	5	0	3	39	2.3	0.128	0.000	8
10030	2128	POOLED	1	0	3	32	2.0	0.031	0.000	32
10031	2128	COHO SALMON	0	0	3	32	2.0	0.000	0.000	.
10032	2128	WHITE BASS	1	0	3	32	2.0	0.031	0.000	32
10033	2129	POOLED	11	8	24	320	2.4	0.034	0.025	29
10034	2129	COHO SALMON	3	3	24	320	2.4	0.009	0.009	107
10035	2129	FRESHWATER DRUM	3	0	24	320	2.4	0.009	0.000	107

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OBS	GRID	SPECIES	NUMBER CAUGHT	NUMBER KEPT	NUMBER OF TRIPS	EFFORT (ROD-HOURS)	RODS PER TRIP	CAUGHT PER ROD-HOUR	KEPT PER ROD-HOUR	ROD-HOURS PER FISH CAUGHT
10036	2129	RAINBOW TROUT	3	3	24	320	2.4	0.009	0.009	107
10037	2129	YELLOW PICKEREL	2	2	24	320	2.4	0.006	0.006	160
10038	2139	POOLED	2	0	3	16	2.0	0.125	0.000	8
10039	2139	COHO SALMON	0	0	3	16	2.0	0.000	0.000	.
10040	2139	FRESHWATER DRUM	2	0	3	16	2.0	0.125	0.000	8
10041	2210	POOLED	0	0	2	45	2.5	0.000	0.000	.
10042	2210	COHO SALMON	0	0	2	45	2.5	0.000	0.000	.
10043	2211	POOLED	0	0	2	41	3.0	0.000	0.000	.
10044	2211	COHO SALMON	0	0	2	41	3.0	0.000	0.000	.
10045	2220	POOLED	14	6	8	118	2.1	0.119	0.051	8
10046	2220	COHO SALMON	2	2	8	118	2.1	0.017	0.017	59
10047	2220	FRESHWATER DRUM	8	0	8	118	2.1	0.068	0.000	15
10048	2220	YELLOW PICKEREL	4	4	8	118	2.1	0.034	0.034	30
10049	2221	POOLED	1	1	1	27	4.0	0.037	0.037	27
10050	2221	COHO SALMON	1	1	1	27	4.0	0.037	0.037	27
10051	2230	POOLED	29	14	24	366	2.5	0.079	0.038	13
10052	2230	CHINOOK	1	1	24	366	2.5	0.003	0.003	366
10053	2230	COHO SALMON	8	6	24	366	2.5	0.022	0.016	46
10054	2230	FRESHWATER DRUM	12	1	24	366	2.5	0.033	0.003	30
10055	2230	RAINBOW TROUT	3	2	24	366	2.5	0.008	0.005	122
10056	2230	WHITE BASS	2	1	24	366	2.5	0.005	0.003	183
10057	2230	YELLOW PICKEREL	3	3	24	366	2.5	0.008	0.008	122
10058	2231	POOLED	7	7	4	38	2.8	0.183	0.183	5
10059	2231	COHO SALMON	0	0	4	38	2.8	0.000	0.000	.
10060	2231	WHITE BASS	1	1	4	38	2.8	0.026	0.026	38
10061	2231	YELLOW PICKEREL	6	6	4	38	2.8	0.157	0.157	6
10062	2234	POOLED	8	5	1	6	4.0	1.333	0.833	1
10063	2234	FRESHWATER DRUM	3	0	1	6	4.0	0.500	0.000	2
10064	2234	YELLOW PICKEREL	5	5	1	6	4.0	0.833	0.833	1
10065	2240	POOLED	13	6	9	76	2.6	0.172	0.079	6
10066	2240	COHO SALMON	3	3	9	76	2.6	0.040	0.040	25
10067	2240	FRESHWATER DRUM	6	0	9	76	2.6	0.079	0.000	13
10068	2240	RAINBOW TROUT	3	2	9	76	2.6	0.040	0.026	25
10069	2240	YELLOW PICKEREL	1	1	9	76	2.6	0.013	0.013	76
10070	2241	POOLED	1	1	2	41	2.5	0.025	0.025	41
10071	2241	COHO SALMON	0	0	2	41	2.5	0.000	0.000	.
10072	2241	RAINBOW TROUT	1	1	2	41	2.5	0.025	0.025	41
10073	2242	POOLED	5	5	1	3	2.0	1.667	1.667	1
10074	2242	YELLOW PICKEREL	5	5	1	3	2.0	1.667	1.667	1
10075	2243	POOLED	3	3	1	20	4.0	0.150	0.150	7
10076	2243	COHO SALMON	1	1	1	20	4.0	0.050	0.050	20
10077	2243	YELLOW PICKEREL	2	2	1	20	4.0	0.100	0.100	10
10078	2248	POOLED	5	5	1	9	1.0	0.556	0.556	2
10079	2248	YELLOW PICKEREL	5	5	1	9	1.0	0.556	0.556	2
10080	2249	POOLED	19	14	1	25	7.0	0.776	0.571	1
10081	2249	FRESHWATER DRUM	10	5	1	25	7.0	0.408	0.204	2
10082	2249	WHITE BASS	6	6	1	25	7.0	0.245	0.245	4
10083	2249	YELLOW PICKEREL	3	3	1	25	7.0	0.122	0.122	8
10084	2255	POOLED	43	36	6	108	3.7	0.400	0.335	3
10085	2255	FRESHWATER DRUM	7	0	6	108	3.7	0.065	0.000	15
10086	2255	WHITE BASS	11	11	6	108	3.7	0.102	0.102	10
10087	2255	YELLOW PICKEREL	25	25	6	108	3.7	0.233	0.233	4

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10088	2256	POOLED	1	1	2	28	3.0	0.036	0.036	28
10089	2256	COHO SALMON	0	0	2	28	3.0	0.000	0.000	.
10090	2256	YELLOW PICKEREL	1	1	2	28	3.0	0.036	0.036	28
10091	2257	POOLED	20	16	4	80	4.5	0.252	0.201	4
10092	2257	COHO SALMON	3	3	4	80	4.5	0.038	0.038	27
10093	2257	FRESHWATER DRUM	8	4	4	80	4.5	0.101	0.050	10
10094	2257	YELLOW PICKEREL	9	9	4	80	4.5	0.113	0.113	9
10095	2258	POOLED	9	6	1	20	4.0	0.450	0.300	2
10096	2258	FRESHWATER DRUM	4	2	1	20	4.0	0.200	0.100	5
10097	2258	WHITE BASS	2	1	1	20	4.0	0.100	0.050	10
10098	2258	YELLOW PICKEREL	3	3	1	20	4.0	0.150	0.150	7
10099	2264	POOLED	8	2	3	55	2.7	0.147	0.037	7
10100	2264	COHO SALMON	0	0	3	55	2.7	0.000	0.000	.
10101	2264	FRESHWATER DRUM	6	0	3	55	2.7	0.110	0.000	9
10102	2264	RAINBOW TROUT	1	1	3	55	2.7	0.018	0.018	55
10103	2264	YELLOW PICKEREL	1	1	3	55	2.7	0.018	0.018	55
10104	2265	POOLED	17	16	7	105	3.3	0.163	0.153	6
10105	2265	COHO SALMON	4	4	7	105	3.3	0.038	0.038	26
10106	2265	FRESHWATER DRUM	2	1	7	105	3.3	0.019	0.010	52
10107	2265	RAINBOW TROUT	3	3	7	105	3.3	0.029	0.029	35
10108	2265	WHITE BASS	2	2	7	105	3.3	0.019	0.019	52
10109	2265	YELLOW PICKEREL	6	6	7	105	3.3	0.057	0.057	17
10110	2266	POOLED	25	25	10	116	2.6	0.216	0.216	5
10111	2266	COHO SALMON	3	3	10	116	2.6	0.026	0.026	39
10112	2266	RAINBOW TROUT	1	1	10	116	2.6	0.009	0.009	116
10113	2266	YELLOW PICKEREL	21	21	10	116	2.6	0.181	0.181	6
10114	2267	POOLED	67	56	30	409	3.4	0.164	0.137	6
10115	2267	CHINOOK	2	2	30	409	3.4	0.005	0.005	205
10116	2267	COHO SALMON	19	18	30	409	3.4	0.046	0.044	22
10117	2267	FRESHWATER DRUM	11	3	30	409	3.4	0.027	0.007	37
10118	2267	RAINBOW TROUT	8	8	30	409	3.4	0.020	0.020	51
10119	2267	WHITE BASS	8	0	30	409	3.4	0.020	0.015	51
10120	2267	WHITE PERCH	1	1	30	409	3.4	0.002	0.002	409
10121	2267	YELLOW PICKEREL	18	18	30	409	3.4	0.044	0.044	23
10122	2268	POOLED	52	38	16	201	2.5	0.259	0.189	4
10123	2268	COHO SALMON	22	15	16	201	2.5	0.109	0.075	9
10124	2268	FRESHWATER DRUM	9	3	16	201	2.5	0.045	0.015	22
10125	2268	RAINBOW TROUT	2	2	16	201	2.5	0.010	0.010	101
10126	2268	WHITE BASS	1	0	16	201	2.5	0.005	0.000	201
10127	2268	YELLOW PICKEREL	18	18	16	201	2.5	0.090	0.090	11
10128	2269	POOLED	20	17	11	167	2.5	0.120	0.102	8
10129	2269	COHO SALMON	3	3	11	167	2.5	0.018	0.018	56
10130	2269	FRESHWATER DRUM	3	1	11	167	2.5	0.018	0.006	56
10131	2269	RAINBOW TROUT	6	6	11	167	2.5	0.036	0.036	28
10132	2269	WHITE BASS	1	0	11	167	2.5	0.006	0.000	167
10133	2269	YELLOW PICKEREL	7	7	11	167	2.5	0.042	0.042	24
10134	2270	POOLED	0	0	2	18	3.0	0.000	0.000	.
10135	2270	SMALLMOUTH BASS	0	0	2	18	3.0	0.000	0.000	.
10136	2270	YELLOW PICKEREL	0	0	2	18	3.0	0.000	0.000	.
10137	2274	POOLED	0	0	1	16	4.0	0.000	0.000	.
10138	2274	COHO SALMON	0	0	1	16	4.0	0.000	0.000	.
10139	2275	POOLED	5	2	4	49	2.5	0.102	0.041	10

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10140	2275	COHO SALMON	0	0	4	49	2.5	0.000	0.000	.
10141	2275	FRESHWATER DRUM	2	0	4	49	2.5	0.041	0.000	25
10142	2275	RAINBOW SMELT	1	0	4	49	2.5	0.020	0.000	49
10143	2275	RAINBOW TROUT	1	1	4	49	2.5	0.020	0.020	49
10144	2275	YELLOW PICKEREL	1	1	4	49	2.5	0.020	0.020	49
10145	2276	POOLED	30	27	12	164	3.1	0.183	0.165	5
10146	2276	COHO SALMON	2	2	12	164	3.1	0.012	0.012	82
10147	2276	FRESHWATER DRUM	2	0	12	164	3.1	0.012	0.000	82
10148	2276	RAINBOW TROUT	1	1	12	164	3.1	0.006	0.006	164
10149	2276	WHITE BASS	1	0	12	164	3.1	0.006	0.000	164
10150	2276	YELLOW PICKEREL	24	24	12	164	3.1	0.146	0.146	7
10151	2277	POOLED	156	129	86	701	2.0	0.223	0.184	4
10152	2277	CHINOOK	0	0	86	701	2.0	0.000	0.000	.
10153	2277	COHO SALMON	21	17	86	701	2.0	0.030	0.024	33
10154	2277	FRESHWATER DRUM	21	3	86	701	2.0	0.030	0.004	33
10155	2277	RAINBOW TROUT	10	9	86	701	2.0	0.014	0.013	70
10156	2277	WHITE BASS	9	5	86	701	2.0	0.013	0.007	78
10157	2277	YELLOW PERCH	46	46	86	701	2.0	0.066	0.066	15
10158	2277	YELLOW PICKEREL	49	49	86	701	2.0	0.070	0.070	14
10159	2278	POOLED	32	30	20	277	2.5	0.116	0.108	9
10160	2278	COHO SALMON	20	19	20	277	2.5	0.072	0.069	14
10161	2278	FRESHWATER DRUM	1	0	20	277	2.5	0.004	0.000	277
10162	2278	RAINBOW TROUT	5	5	20	277	2.5	0.018	0.018	55
10163	2278	YELLOW PICKEREL	6	6	20	277	2.5	0.022	0.022	46
10164	2279	POOLED	25	17	19	128	2.5	0.195	0.133	5
10165	2279	CHINOOK	1	1	19	128	2.5	0.008	0.008	128
10166	2279	COHO SALMON	3	2	19	128	2.5	0.023	0.016	43
10167	2279	FRESHWATER DRUM	6	0	19	128	2.5	0.047	0.000	21
10168	2279	RAINBOW TROUT	4	3	19	128	2.5	0.031	0.023	32
10169	2279	WHITE BASS	4	4	19	128	2.5	0.031	0.031	32
10170	2279	YELLOW PICKEREL	7	7	19	128	2.5	0.055	0.055	18
10171	2360	POOLED	6	3	2	29	3.0	0.207	0.103	5
10172	2360	COHO SALMON	1	1	2	29	3.0	0.034	0.034	29
10173	2360	FRESHWATER DRUM	4	2	2	29	3.0	0.138	0.069	7
10174	2360	RAINBOW TROUT	1	0	2	29	3.0	0.034	0.000	29
10175	2361	POOLED	8	5	1	16	4.0	0.500	0.313	2
10176	2361	FRESHWATER DRUM	6	3	1	16	4.0	0.375	0.188	3
10177	2361	RAINBOW TROUT	2	2	1	16	4.0	0.125	0.125	8
10178	2367	POOLED	0	0	1	6	2.0	0.000	0.000	.
10179	2367	SMALLMOUTH BASS	0	0	1	6	2.0	0.000	0.000	.
10180	2369	POOLED	66	54	1	20	3.0	3.385	2.769	0
10181	2369	CHANNEL CATFISH	1	0	1	20	3.0	0.051	0.000	20
10182	2369	ROCK BASS	2	2	1	20	3.0	0.103	0.103	10
10183	2369	YELLOW PERCH	63	52	1	20	3.0	3.231	2.667	0
10184	2376	POOLED	107	72	3	34	2.7	3.147	2.118	0
10185	2376	FRESHWATER DRUM	12	6	3	34	2.7	0.353	0.176	3
10186	2376	LARGEMOUTH BASS	5	5	3	34	2.7	0.147	0.147	7
10187	2376	ROCK BASS	30	18	3	34	2.7	1.059	0.529	1
10188	2376	SMALLMOUTH BASS	12	12	3	34	2.7	0.353	0.353	3
10189	2376	YELLOW PERCH	42	31	3	34	2.7	1.235	0.912	1
10190	2377	POOLED	1221	605	58	638	2.5	1.914	0.948	1
10191	2377	BLACK CRAPPIE	12	9	58	638	2.5	0.019	0.014	53

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10192	2377	BOWFIN	1	0	58	638	2.5	0.002	0.000	638
10193	2377	FRESHWATER DRUM	20	0	58	638	2.5	0.031	0.000	32
10194	2377	LARGEMOUTH BASS	3	1	58	638	2.5	0.005	0.002	213
10195	2377	NORTHERN PIKE	11	8	58	638	2.5	0.017	0.013	58
10196	2377	PUMPKINSEED	86	26	58	638	2.5	0.135	0.041	7
10197	2377	ROCK BASS	316	132	58	638	2.5	0.495	0.207	2
10198	2377	SMALLMOUTH BASS	269	193	58	638	2.5	0.422	0.303	2
10199	2377	WHITE BASS	1	0	58	638	2.5	0.002	0.000	638
10200	2377	WHITE CRAPPIE	1	0	58	638	2.5	0.002	0.000	638
10201	2377	YELLOW PERCH	500	235	58	638	2.5	0.784	0.368	1
10202	2377	YELLOW PICKEREL	1	1	58	638	2.5	0.002	0.002	638
10203	2378	POOLED	79	69	4	86	3.3	0.919	0.744	1
10204	2378	BLUEGILL	12	12	4	86	3.3	0.140	0.140	7
10205	2378	PUMPKINSEED	1	0	4	86	3.3	0.012	0.000	86
10206	2378	ROCK BASS	18	9	4	86	3.3	0.209	0.105	5
10207	2378	SMALLMOUTH BASS	9	4	4	86	3.3	0.105	0.047	10
10208	2378	YELLOW PERCH	37	37	4	86	3.3	0.430	0.430	2
10209	2378	YELLOW PICKEREL	2	2	4	86	3.3	0.023	0.023	43
10210	2379	POOLED	221	171	8	87	2.9	2.540	1.966	0
10211	2379	FRESHWATER DRUM	3	3	8	87	2.9	0.034	0.034	29
10212	2379	NORTHERN PIKE	25	15	8	87	2.9	0.287	0.172	3
10213	2379	SMALLMOUTH BASS	78	78	8	87	2.9	0.897	0.897	1
10214	2379	YELLOW PERCH	115	75	8	87	2.9	1.322	0.862	1
10215	2388	POOLED	31	31	2	66	3.5	0.470	0.470	2
10216	2388	COHO SALMON	1	1	2	66	3.5	0.015	0.015	66
10217	2388	SMALLMOUTH BASS	9	9	2	66	3.5	0.136	0.136	7
10218	2388	YELLOW PERCH	20	20	2	66	3.5	0.303	0.303	3
10219	2388	YELLOW PICKEREL	1	1	2	66	3.5	0.015	0.015	66
10220	2399	POOLED	72	48	4	40	2.3	1.789	1.193	1
10221	2399	NORTHERN PIKE	0	0	4	40	2.3	0.000	0.000	.
10222	2399	ROCK BASS	3	0	4	40	2.3	0.075	0.000	13
10223	2399	SMALLMOUTH BASS	7	7	4	40	2.3	0.174	0.174	6
10224	2399	YELLOW PERCH	62	41	4	40	2.3	1.540	1.019	1
10225	2451	POOLED	0	0	1	35	5.0	0.171	0.171	6
10226	2451	COHO SALMON	3	3	1	35	5.0	0.086	0.086	12
10227	2451	PINK SALMON	2	2	1	35	5.0	0.057	0.057	18
10228	2451	RAINBOW TROUT	1	1	1	35	5.0	0.029	0.029	35
10229	2460	POOLED	69	54	3	32	3.0	2.140	1.674	0
10230	2460	CHINOOK	1	1	3	32	3.0	0.031	0.031	32
10231	2460	COHO SALMON	8	8	3	32	3.0	0.248	0.248	4
10232	2460	RAINBOW TROUT	1	1	3	32	3.0	0.031	0.031	32
10233	2460	ROCK BASS	45	30	3	32	3.0	1.395	0.930	1
10234	2460	SMALLMOUTH BASS	14	14	3	32	3.0	0.434	0.434	2
10235	2461	POOLED	567	529	95	1654	2.9	0.343	0.320	3
10236	2461	CHINOOK	15	15	95	1654	2.9	0.009	0.009	110
10237	2461	COHO SALMON	376	375	95	1654	2.9	0.227	0.227	4
10238	2461	FRESHWATER DRUM	15	1	95	1654	2.9	0.009	0.001	110
10239	2461	LAKE TROUT	1	1	95	1654	2.9	0.001	0.001	1654
10240	2461	PINK SALMON	107	84	95	1654	2.9	0.065	0.051	15
10241	2461	RAINBOW TROUT	52	52	95	1654	2.9	0.031	0.031	32
10242	2461	YELLOW PICKEREL	1	1	95	1654	2.9	0.001	0.001	1654
10243	2462	POOLED	92	78	14	206	2.4	0.448	0.380	2

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10244	2462	CHINOOK	3	3	14	206	2.4	0.015	0.015	69
10245	2462	COHO SALMON	56	53	14	206	2.4	0.273	0.258	4
10246	2462	FRESHWATER DRUM	11	0	14	206	2.4	0.054	0.000	19
10247	2462	LAKE TROUT	5	5	14	206	2.4	0.024	0.024	41
10248	2462	PINK SALMON	14	14	14	206	2.4	0.068	0.068	15
10249	2462	RAINBOW TROUT	3	3	14	206	2.4	0.015	0.015	69
10250	2463	POOLED	12	12	1	25	4.0	0.480	0.480	2
10251	2463	CHINOOK	1	1	1	25	4.0	0.040	0.040	25
10252	2463	COHO SALMON	4	4	1	25	4.0	0.160	0.160	6
10253	2463	LAKE TROUT	1	1	1	25	4.0	0.040	0.040	25
10254	2463	PINK SALMON	4	4	1	25	4.0	0.160	0.160	6
10255	2463	RAINBOW TROUT	2	2	1	25	4.0	0.080	0.080	13
10256	2470	POOLED	59	55	13	200	2.7	0.296	0.276	3
10257	2470	CHINOOK	3	3	13	200	2.7	0.015	0.015	67
10258	2470	COHO SALMON	55	51	13	200	2.7	0.276	0.256	4
10259	2470	PINK SALMON	1	1	13	200	2.7	0.005	0.005	200
10260	2471	POOLED	127	105	18	294	2.7	0.433	0.358	2
10261	2471	CHINOOK	3	3	18	294	2.7	0.010	0.010	98
10262	2471	COHO SALMON	78	75	18	294	2.7	0.266	0.256	4
10263	2471	FRESHWATER DRUM	16	5	18	294	2.7	0.055	0.017	18
10264	2471	LAKE TROUT	2	2	18	294	2.7	0.007	0.007	147
10265	2471	PINK SALMON	19	11	18	294	2.7	0.065	0.037	15
10266	2471	RAINBOW TROUT	9	9	18	294	2.7	0.031	0.031	33
10267	2472	POOLED	8	8	2	24	4.0	0.333	0.333	3
10268	2472	COHO SALMON	5	5	2	24	4.0	0.208	0.208	5
10269	2472	RAINBOW TROUT	3	3	2	24	4.0	0.125	0.125	8
10270	2490	POOLED	47	30	3	41	2.0	1.160	0.741	1
10271	2490	FRESHWATER DRUM	14	7	3	41	2.0	0.346	0.173	3
10272	2490	ROCK BASS	12	5	3	41	2.0	0.296	0.123	3
10273	2490	WHITE BASS	3	0	3	41	2.0	0.074	0.000	14
10274	2490	YELLOW PERCH	18	18	3	41	2.0	0.444	0.444	2
10275	2491	POOLED	266	159	5	41	2.4	6.488	3.878	0
10276	2491	FRESHWATER DRUM	7	0	5	41	2.4	0.171	0.000	6
10277	2491	ROCK BASS	18	0	5	41	2.4	0.439	0.000	2
10278	2491	SMALLMOUTH BASS	29	1	5	41	2.4	0.707	0.024	1
10279	2491	WHITE BASS	210	156	5	41	2.4	5.122	3.805	0
10280	2491	YELLOW PERCH	2	2	5	41	2.4	0.049	0.049	21
10281	2492	POOLED	341	286	6	57	2.2	5.982	5.018	0
10282	2492	FRESHWATER DRUM	5	0	6	57	2.2	0.088	0.000	11
10283	2492	SMALLMOUTH BASS	3	3	6	57	2.2	0.053	0.053	19
10284	2492	WHITE BASS	320	270	6	57	2.2	5.614	4.737	0
10285	2492	WHITE PERCH	13	13	6	57	2.2	0.228	0.228	4
10286	2493	POOLED	129	101	2	45	3.0	2.867	2.244	0
10287	2493	FRESHWATER DRUM	28	14	2	45	3.0	0.622	0.311	2
10288	2493	NORTHERN PIKE	1	1	2	45	3.0	0.022	0.022	45
10289	2493	ROCK BASS	28	14	2	45	3.0	0.622	0.311	2
10290	2493	WHITE BASS	25	25	2	45	3.0	0.556	0.556	2
10291	2493	YELLOW PERCH	47	47	2	45	3.0	1.044	1.044	1
10292	3419	POOLED	300	159	22	110	2.0	2.727	1.445	0
10293	3419	FRESHWATER DRUM	100	2	22	110	2.0	0.909	0.018	1
10294	3419	ROCK BASS	59	40	22	110	2.0	0.536	0.364	2
10295	3419	SMALLMOUTH BASS	125	103	22	110	2.0	1.136	0.936	1

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10296	3419	WHITE BASS	1	1	22	110	2.0	0.009	0.009	110
10297	3419	WHITE PERCH	1	1	22	110	2.0	0.009	0.009	110
10298	3419	YELLOW PERCH	14	12	22	110	2.0	0.127	0.109	8
10299	3510	POOLED	464	317	68	304	1.6	1.526	1.043	1
10300	3510	AMERICAN EEL	1	0	68	304	1.6	0.003	0.000	304
10301	3510	FRESHWATER DRUM	115	20	68	304	1.6	0.378	0.066	3
10302	3510	NORTHERN PIKE	2	2	68	304	1.6	0.007	0.007	152
10303	3510	ROCK BASS	59	40	68	304	1.6	0.194	0.132	5
10304	3510	SMALLMOUTH BASS	237	208	68	304	1.6	0.780	0.684	1
10305	3510	WHITE BASS	4	4	68	304	1.6	0.013	0.013	76
10306	3510	YELLOW PERCH	46	43	68	304	1.6	0.151	0.141	7
10307	3511	POOLED	112	28	24	106	1.6	1.054	0.264	1
10308	3511	FRESHWATER DRUM	38	0	24	106	1.6	0.358	0.000	3
10309	3511	MASKINONGE	1	0	24	106	1.6	0.009	0.000	106
10310	3511	ROCK BASS	17	0	24	106	1.6	0.160	0.000	6
10311	3511	SMALLMOUTH BASS	33	12	24	106	1.6	0.311	0.113	3
10312	3511	YELLOW PERCH	17	10	24	106	1.6	0.160	0.094	6
10313	3511	YELLOW PICKEREL	6	6	24	106	1.6	0.056	0.056	18
10314	3513	POOLED	28	0	4	31	2.0	0.918	0.000	1
10315	3513	FRESHWATER DRUM	12	0	4	31	2.0	0.393	0.000	3
10316	3513	ROCK BASS	11	0	4	31	2.0	0.361	0.000	3
10317	3513	SMALLMOUTH BASS	4	0	4	31	2.0	0.131	0.000	8
10318	3513	YELLOW PERCH	1	0	4	31	2.0	0.033	0.000	31

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8795	POOLED	POOLED	2364	2049	110	3861	5.6	0.612	0.531	2
8796	POOLED	ATLANTIC SALMON	1	1	110	3861	5.6	0.000	0.000	3861
8797	POOLED	CHANNEL CATFISH	4	0	110	3861	5.6	0.001	0.000	965
8798	POOLED	CHINOOK	25	25	110	3861	5.6	0.006	0.006	154
8799	POOLED	COHO SALMON	141	134	110	3861	5.6	0.037	0.035	27
8800	POOLED	FRESHWATER DRUM	163	33	110	3861	5.6	0.042	0.009	24
8801	POOLED	NORTHERN PIKE	8	8	110	3861	5.6	0.002	0.002	483
8802	POOLED	PINK SALMON	12	12	110	3861	5.6	0.003	0.003	322
8803	POOLED	RAINBOW TROUT	12	11	110	3861	5.6	0.003	0.003	322
8804	POOLED	ROCK BASS	23	0	110	3861	5.6	0.006	0.000	168
8805	POOLED	SMALLMOUTH BASS	1233	1133	110	3861	5.6	0.319	0.293	3
8806	POOLED	WHITE BASS	66	61	110	3861	5.6	0.017	0.016	59
8807	POOLED	YELLOW PERCH	5	5	110	3861	5.6	0.001	0.001	772
8808	POOLED	YELLOW PICKEREL	671	626	110	3861	5.6	0.174	0.162	6
8809	1069	POOLED	304	223	10	104	3.3	2.923	2.144	0
8810	1069	CHANNEL CATFISH	4	0	10	104	3.3	0.038	0.000	26
8811	1069	FRESHWATER DRUM	37	0	10	104	3.3	0.356	0.000	3
8812	1069	SMALLMOUTH BASS	5	4	10	104	3.3	0.048	0.038	21
8813	1069	WHITE BASS	5	5	10	104	3.3	0.048	0.048	21
8814	1069	YELLOW PICKEREL	253	214	10	104	3.3	2.433	2.058	0
8815	1190	POOLED	57	33	4	62	3.5	0.919	0.532	1
8816	1190	FRESHWATER DRUM	20	0	4	62	3.5	0.323	0.000	3
8817	1190	SMALLMOUTH BASS	16	12	4	62	3.5	0.258	0.194	4
8818	1190	WHITE BASS	3	3	4	62	3.5	0.048	0.048	21
8819	1190	YELLOW PERCH	5	5	4	62	3.5	0.081	0.081	12
8820	1190	YELLOW PICKEREL	13	13	4	62	3.5	0.210	0.210	5
8821	1291	POOLED	5	5	1	30	5.0	0.167	0.167	6
8822	1291	COHO SALMON	4	4	1	30	5.0	0.133	0.133	8
8823	1291	RAINBOW TROUT	1	1	1	30	5.0	0.033	0.033	30
8824	2211	POOLED	2	2	1	40	5.0	0.050	0.050	20
8825	2211	COHO SALMON	0	0	1	40	5.0	0.000	0.000	.
8826	2211	FRESHWATER DRUM	2	2	1	40	5.0	0.050	0.050	20
8827	2230	POOLED	118	52	5	193	5.0	0.613	0.270	2
8828	2230	COHO SALMON	4	4	5	193	5.0	0.021	0.021	48
8829	2230	FRESHWATER DRUM	81	20	5	193	5.0	0.421	0.104	2
8830	2230	WHITE BASS	15	10	5	193	5.0	0.078	0.052	13
8831	2230	YELLOW PICKEREL	18	18	5	193	5.0	0.094	0.094	11
8832	2232	POOLED	40	40	1	36	6.0	1.111	1.111	1
8833	2232	WHITE BASS	2	2	1	36	6.0	0.056	0.056	18
8834	2232	YELLOW PICKEREL	38	38	1	36	6.0	1.056	1.056	1
8835	2233	POOLED	28	28	1	36	6.0	0.778	0.778	1
8836	2233	WHITE BASS	8	8	1	36	6.0	0.222	0.222	5
8837	2233	YELLOW PICKEREL	20	20	1	36	6.0	0.556	0.556	2
8838	2241	POOLED	0	0	1	54	6.0	0.000	0.000	.
8839	2241	CHINOOK	0	0	1	54	6.0	0.000	0.000	.
8840	2241	COHO SALMON	0	0	1	54	6.0	0.000	0.000	.
8841	2241	YELLOW PICKEREL	0	0	1	54	6.0	0.000	0.000	.
8842	2242	POOLED	58	58	3	102	5.7	0.569	0.569	2
8843	2242	FRESHWATER DRUM	1	1	3	102	5.7	0.010	0.010	102
8844	2242	WHITE BASS	10	10	3	102	5.7	0.098	0.098	10
8845	2242	YELLOW PICKEREL	47	47	3	102	5.7	0.461	0.461	2
8846	2243	POOLED	138	138	7	180	4.6	0.767	0.767	1

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8847	2243	ATLANTIC SALMON	1	1	7	180	4.6	0.006	0.006	180
8848	2243	FRESHWATER DRUM	4	4	7	180	4.6	0.022	0.022	45
8849	2243	WHITE BASS	4	4	7	180	4.6	0.022	0.022	45
8850	2243	YELLOW PICKEREL	129	129	7	180	4.6	0.717	0.717	1
8851	2247	POOLED	12	12	1	36	6.0	0.333	0.333	3
8852	2247	COHO SALMON	2	2	1	36	6.0	0.056	0.056	18
8853	2247	YELLOW PICKEREL	10	10	1	36	6.0	0.278	0.278	4
8854	2252	POOLED	119	119	0	192	5.3	0.620	0.620	2
8855	2252	CHINOOK	2	2	0	192	5.3	0.010	0.010	96
8856	2252	COHO SALMON	3	3	0	192	5.3	0.016	0.016	64
8857	2252	FRESHWATER DRUM	2	2	0	192	5.3	0.010	0.010	96
8858	2252	WHITE BASS	17	17	0	192	5.3	0.089	0.089	11
8859	2252	YELLOW PICKEREL	95	95	0	192	5.3	0.495	0.495	2
8860	2253	POOLED	40	40	2	60	5.0	0.667	0.667	2
8861	2253	RAINBOW TROUT	1	1	2	60	5.0	0.017	0.017	60
8862	2253	WHITE BASS	2	2	2	60	5.0	0.033	0.033	30
8863	2253	YELLOW PICKEREL	37	37	2	60	5.0	0.617	0.617	2
8864	2278	POOLED	28	18	7	204	4.6	0.138	0.088	7
8865	2278	COHO SALMON	7	4	7	204	4.6	0.034	0.020	29
8866	2278	FRESHWATER DRUM	4	4	7	204	4.6	0.020	0.020	51
8867	2278	RAINBOW TROUT	6	5	7	204	4.6	0.029	0.025	34
8868	2278	YELLOW PICKEREL	11	5	7	204	4.6	0.054	0.025	19
8869	2377	POOLED	1110	988	36	1892	7.8	0.587	0.522	2
8870	2377	FRESHWATER DRUM	12	0	36	1892	7.8	0.006	0.000	158
8871	2377	NORTHERN PIKE	1	1	36	1892	7.8	0.001	0.001	1892
8872	2377	ROCK BASS	15	0	36	1892	7.8	0.008	0.000	126
8873	2377	SMALLMOUTH BASS	1082	987	36	1892	7.8	0.572	0.522	2
8874	2378	POOLED	12	12	1	27	6.0	0.444	0.444	2
8875	2378	NORTHERN PIKE	2	2	1	27	6.0	0.074	0.074	14
8876	2378	SMALLMOUTH BASS	10	10	1	27	6.0	0.370	0.370	3
8877	2379	POOLED	133	125	7	314	7.4	0.424	0.398	2
8878	2379	NORTHERN PIKE	5	5	7	314	7.4	0.016	0.016	63
8879	2379	ROCK BASS	8	0	7	314	7.4	0.025	0.000	39
8880	2379	SMALLMOUTH BASS	120	120	7	314	7.4	0.382	0.382	3
8881	2451	POOLED	7	7	1	28	4.0	0.250	0.250	4
8882	2451	COHO SALMON	7	7	1	28	4.0	0.250	0.250	4
8883	2461	POOLED	153	149	15	272	2.9	0.563	0.548	2
8884	2461	CHINOOK	23	23	15	272	2.9	0.085	0.085	12
8885	2461	COHO SALMON	114	110	15	272	2.9	0.419	0.404	2
8886	2461	PINK SALMON	12	12	15	272	2.9	0.044	0.044	23
8887	2461	RAINBOW TROUT	4	4	15	272	2.9	0.015	0.015	68

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1180	POOLED	POOLED	300	275	92	1138	2.9	0.269	0.242	4
1181	POOLED	CHANNEL CATFISH	1	0	92	1138	2.9	0.001	0.000	1138
1182	POOLED	CHINOOK	2	2	92	1138	2.9	0.002	0.002	569
1183	POOLED	COHO SALMON	28	28	92	1138	2.9	0.025	0.025	41
1184	POOLED	FRESHWATER DRUM	20	4	92	1138	2.9	0.018	0.004	57
1185	POOLED	RAINBOW TROUT	12	11	92	1138	2.9	0.011	0.010	95
1186	POOLED	ROCK BASS	2	2	92	1138	2.9	0.002	0.002	569
1187	POOLED	WHITE BASS	8	6	92	1138	2.9	0.007	0.005	142
1188	POOLED	YELLOW PERCH	73	62	92	1138	2.9	0.064	0.054	16
1189	POOLED	YELLOW PICKEREL	160	160	92	1138	2.9	0.141	0.141	7
1190	1192	POOLED	1	1	1	4	2.0	0.250	0.250	4
1191	1192	YELLOW PICKEREL	1	1	1	4	2.0	0.250	0.250	4
1192	1194	POOLED	2	2	1	2	2.0	1.000	1.000	1
1193	1194	WHITE BASS	1	1	1	2	2.0	0.500	0.500	2
1194	1194	YELLOW PICKEREL	1	1	1	2	2.0	0.500	0.500	2
1195	2114	POOLED	1	0	1	4	2.0	0.250	0.000	4
1196	2114	FRESHWATER DRUM	1	0	1	4	2.0	0.250	0.000	4
1197	2126	POOLED	1	0	2	26	2.5	0.038	0.000	26
1198	2128	COHO SALMON	0	0	2	26	2.5	0.000	0.000	•
1199	2128	WHITE BASS	1	0	2	26	2.5	0.038	0.000	26
1200	2129	POOLED	3	3	3	43	3.0	0.070	0.070	14
1201	2129	COHO SALMON	0	0	3	43	3.0	0.000	0.000	•
1202	2129	RAINBOW TROUT	1	1	3	43	3.0	0.023	0.023	43
1203	2129	YELLOW PICKEREL	2	2	3	43	3.0	0.047	0.047	22
1204	2139	POOLED	0	0	1	5	3.0	0.000	0.000	•
1205	2139	COHO SALMON	0	0	1	5	3.0	0.000	0.000	•
1206	2220	POOLED	1	1	1	20	4.0	0.050	0.050	20
1207	2220	YELLOW PICKEREL	1	1	1	20	4.0	0.050	0.050	20
1208	2230	POOLED	1	1	1	28	4.0	0.036	0.036	28
1209	2230	YELLOW PICKEREL	1	1	1	28	4.0	0.036	0.036	28
1210	2231	POOLED	0	0	1	12	2.0	0.000	0.000	•
1211	2231	COHO SALMON	0	0	1	12	2.0	0.000	0.000	•
1212	2242	POOLED	13	13	1	30	5.0	0.433	0.433	2
1213	2242	WHITE BASS	1	1	1	30	5.0	0.033	0.033	30
1214	2242	YELLOW PICKEREL	12	12	1	30	5.0	0.400	0.400	3
1215	2243	POOLED	46	46	3	68	4.0	0.676	0.676	1
1216	2243	COHO SALMON	1	1	3	68	4.0	0.015	0.015	68
1217	2243	FRESHWATER DRUM	4	4	3	68	4.0	0.059	0.059	17
1218	2243	WHITE BASS	1	1	3	68	4.0	0.015	0.015	68
1219	2243	YELLOW PICKEREL	40	40	3	68	4.0	0.588	0.588	2
1220	2247	POOLED	12	12	1	36	6.0	0.333	0.333	3
1221	2247	COHO SALMON	2	2	1	36	6.0	0.056	0.056	18
1222	2247	YELLOW PICKEREL	10	10	1	36	6.0	0.278	0.278	4
1223	2248	POOLED	5	5	1	9	1.0	0.556	0.556	2
1224	2248	YELLOW PICKEREL	5	5	1	9	1.0	0.556	0.556	2
1225	2253	POOLED	14	14	1	30	5.0	0.467	0.467	2
1226	2253	RAINBOW TROUT	1	1	1	30	5.0	0.033	0.033	30
1227	2253	WHITE BASS	1	1	1	30	5.0	0.033	0.033	30
1228	2253	YELLOW PICKEREL	12	12	1	30	5.0	0.400	0.400	3
1229	2255	POOLED	7	7	2	29	2.5	0.241	0.241	4
1230	2255	WHITE BASS	1	1	2	29	2.5	0.034	0.034	29
1231	2255	YELLOW PICKEREL	6	6	2	29	2.5	0.207	0.207	5

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1232	2257	POOLED	5	5	3	57	4.3	0.088	0.088	11
1233	2257	COHO SALMON	3	3	3	57	4.3	0.053	0.053	19
1234	2257	YELLOW PICKEREL	2	2	3	57	4.3	0.035	0.035	29
1235	2264	POOLED	2	2	1	11	2.0	0.190	0.190	5
1236	2264	RAINBOW TROUT	1	1	1	11	2.0	0.095	0.095	11
1237	2264	YELLOW PICKEREL	1	1	1	11	2.0	0.095	0.095	11
1238	2265	POOLED	2	2	3	44	4.0	0.045	0.045	22
1239	2265	COHO SALMON	1	1	3	44	4.0	0.023	0.023	44
1240	2265	YELLOW PICKEREL	1	1	3	44	4.0	0.023	0.023	44
1241	2266	POOLED	6	6	4	60	3.3	0.100	0.100	10
1242	2266	COHO SALMON	1	1	4	60	3.3	0.017	0.017	60
1243	2266	YELLOW PICKEREL	5	5	4	60	3.3	0.083	0.083	12
1244	2267	POOLED	30	30	14	249	3.8	0.121	0.121	8
1245	2267	CHINOOK	2	2	14	249	3.8	0.008	0.008	124
1246	2267	COHO SALMON	15	15	14	249	3.8	0.060	0.060	17
1247	2267	RAINBOW TROUT	5	5	14	249	3.8	0.020	0.020	50
1248	2267	YELLOW PICKEREL	8	8	14	249	3.8	0.032	0.032	31
1249	2268	POOLED	9	8	3	33	3.3	0.273	0.242	4
1250	2268	WHITE BASS	1	0	3	33	3.3	0.030	0.000	33
1251	2268	YELLOW PICKEREL	8	8	3	33	3.3	0.242	0.242	4
1252	2269	POOLED	9	7	3	63	3.3	0.142	0.111	7
1253	2269	COHO SALMON	1	1	3	63	3.3	0.016	0.016	63
1254	2269	FRESHWATER DRUM	2	0	3	63	3.3	0.032	0.000	32
1255	2269	RAINBOW TROUT	1	1	3	63	3.3	0.016	0.016	63
1256	2269	YELLOW PICKEREL	5	5	3	63	3.3	0.079	0.079	13
1257	2275	POOLED	0	0	1	11	2.0	0.000	0.000	.
1258	2275	COHO SALMON	0	0	1	11	2.0	0.000	0.000	.
1259	2276	POOLED	18	18	3	33	2.7	0.545	0.545	2
1260	2276	COHO SALMON	0	0	3	33	2.7	0.000	0.000	.
1261	2276	YELLOW PICKEREL	18	18	3	33	2.7	0.545	0.545	2
1262	2277	POOLED	51	38	29	183	2.0	0.279	0.208	4
1263	2277	COHO SALMON	4	4	29	183	2.0	0.022	0.022	46
1264	2277	FRESHWATER DRUM	13	0	29	183	2.0	0.071	0.000	14
1265	2277	RAINBOW TROUT	2	2	29	183	2.0	0.011	0.011	91
1266	2277	WHITE BASS	1	1	29	183	2.0	0.005	0.005	183
1267	2277	YELLOW PERCH	10	10	29	183	2.0	0.055	0.055	18
1268	2277	YELLOW PICKEREL	21	21	29	183	2.0	0.115	0.115	9
1269	2279	POOLED	0	0	5	22	2.2	0.000	0.000	.
1270	2279	COHO SALMON	0	0	5	22	2.2	0.000	0.000	.
1271	2360	POOLED	1	0	1	9	2.0	0.111	0.000	9
1272	2360	RAINBOW TROUT	1	0	1	9	2.0	0.111	0.000	9
1273	2369	POOLED	66	54	1	20	3.0	3.385	2.769	0
1274	2369	CHANNEL CATFISH	1	0	1	20	3.0	0.051	0.000	20
1275	2369	ROCK BASS	2	2	1	20	3.0	0.103	0.103	10
1276	2369	YELLOW PERCH	63	52	1	20	3.0	3.231	2.667	0

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1657	POOLED	POOLED	868	697	243	3442	2.6	0.252	0.203	4
1658	POOLED	ATLANTIC SALMON	1	1	243	3442	2.6	0.000	0.000	3442
1659	POOLED	CHINOOK	3	3	243	3442	2.6	0.001	0.001	1147
1660	POOLED	COHO SALMON	118	100	243	3442	2.6	0.034	0.029	29
1661	POOLED	FRESHWATER DRUM	155	34	243	3442	2.6	0.045	0.010	22
1662	POOLED	RAINBOW SMELT	1	0	243	3442	2.6	0.000	0.000	3442
1663	POOLED	RAINBOW TROUT	53	47	243	3442	2.6	0.015	0.014	65
1664	POOLED	ROCK BASS	1	0	243	3442	2.6	0.000	0.000	3442
1665	POOLED	SMALLMOUTH BASS	0	0	243	3442	2.6	0.000	0.000	.
1666	POOLED	WHITE BASS	78	62	243	3442	2.6	0.023	0.018	44
1667	POOLED	WHITE PERCH	3	1	243	3442	2.6	0.001	0.000	1147
1668	POOLED	YELLOW PERCH	62	62	243	3442	2.6	0.018	0.018	56
1669	POOLED	YELLOW PICKEREL	393	387	243	3442	2.6	0.114	0.112	9
1670	1189	POOLED	13	9	3	95	3.0	0.138	0.095	7
1671	1189	COHO SALMON	5	5	3	95	3.0	0.053	0.053	19
1672	1189	FRESHWATER DRUM	4	0	3	95	3.0	0.042	0.000	24
1673	1189	RAINBOW TROUT	3	3	3	95	3.0	0.032	0.032	32
1674	1189	YELLOW PICKEREL	1	1	3	95	3.0	0.011	0.011	95
1675	1196	POOLED	3	0	1	5	1.0	0.667	0.000	2
1676	1196	WHITE BASS	3	0	1	5	1.0	0.667	0.000	2
1677	1199	POOLED	1	1	1	16	2.0	0.063	0.063	16
1678	1199	YELLOW PICKEREL	1	1	1	16	2.0	0.063	0.063	16
1679	1280	POOLED	1	1	1	7	1.0	0.143	0.143	7
1680	1280	COHO SALMON	1	1	1	7	1.0	0.143	0.143	7
1681	1290	POOLED	4	4	2	29	2.5	0.138	0.138	7
1682	1290	COHO SALMON	2	2	2	29	2.5	0.069	0.069	15
1683	1290	RAINBOW TROUT	2	2	2	29	2.5	0.069	0.069	15
1684	1291	POOLED	6	6	2	32	3.0	0.190	0.190	5
1685	1291	COHO SALMON	5	5	2	32	3.0	0.159	0.159	6
1686	1291	RAINBOW TROUT	1	1	2	32	3.0	0.032	0.032	32
1687	2112	POOLED	29	26	2	6	1.5	4.833	4.333	0
1688	2112	ROCK BASS	1	0	2	6	1.5	0.167	0.000	6
1689	2112	WHITE PERCH	2	0	2	6	1.5	0.333	0.000	3
1690	2112	YELLOW PERCH	26	26	2	6	1.5	4.333	4.333	0
1691	2112	YELLOW PICKEREL	0	0	2	6	1.5	0.000	0.000	.
1692	2113	POOLED	0	0	1	2	1.0	0.000	0.000	.
1693	2113	COHO SALMON	0	0	1	2	1.0	0.000	0.000	.
1694	2116	POOLED	6	2	1	24	2.0	0.250	0.083	4
1695	2116	FRESHWATER DRUM	3	0	1	24	2.0	0.125	0.000	8
1696	2116	WHITE BASS	2	1	1	24	2.0	0.083	0.042	12
1697	2116	YELLOW PICKEREL	1	1	1	24	2.0	0.042	0.042	24
1698	2118	POOLED	0	0	1	5	1.0	0.000	0.000	.
1699	2118	COHO SALMON	0	0	1	5	1.0	0.000	0.000	.
1700	2119	POOLED	2	1	2	19	1.5	0.108	0.054	9
1701	2119	RAINBOW TROUT	1	0	2	19	1.5	0.054	0.000	19
1702	2119	YELLOW PICKEREL	1	1	2	19	1.5	0.054	0.054	19
1703	2127	POOLED	0	0	1	24	3.0	0.000	0.000	.
1704	2127	COHO SALMON	0	0	1	24	3.0	0.000	0.000	.
1705	2128	POOLED	0	0	1	6	1.0	0.000	0.000	.
1706	2128	COHO SALMON	0	0	1	6	1.0	0.000	0.000	.
1707	2129	POOLED	5	5	17	233	2.2	0.021	0.021	47
1708	2129	COHO SALMON	3	3	17	233	2.2	0.013	0.013	78

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1709	2129	RAINBOW TROUT	2	2	17	233	2.2	0.009	0.009	117
1710	2129	YELLOW PICKEREL	0	0	17	233	2.2	0.000	0.000	.
1711	2210	POOLED	0	0	2	45	2.5	0.000	0.000	.
1712	2210	COHO SALMON	0	0	2	45	2.5	0.000	0.000	.
1713	2211	POOLED	2	2	3	81	3.7	0.025	0.025	40
1714	2211	COHO SALMON	0	0	3	81	3.7	0.000	0.000	.
1715	2211	FRESHWATER DRUM	2	2	3	81	3.7	0.025	0.025	40
1716	2220	POOLED	13	5	7	98	1.9	0.133	0.051	8
1717	2220	COHO SALMON	2	2	7	98	1.9	0.020	0.020	49
1718	2220	FRESHWATER DRUM	8	0	7	98	1.9	0.082	0.000	12
1719	2220	YELLOW PICKEREL	3	3	7	98	1.9	0.031	0.031	33
1720	2221	POOLED	1	1	1	27	4.0	0.037	0.037	27
1721	2221	COHO SALMON	1	1	1	27	4.0	0.037	0.037	27
1722	2230	POOLED	145	65	26	498	2.9	0.291	0.131	3
1723	2230	CHINOOK	1	1	26	498	2.9	0.002	0.002	498
1724	2230	COHO SALMON	12	10	26	498	2.9	0.024	0.020	42
1725	2230	FRESHWATER DRUM	92	21	26	498	2.9	0.185	0.042	5
1726	2230	RAINBOW TROUT	3	2	26	498	2.9	0.006	0.004	166
1727	2230	WHITE BASS	17	11	26	498	2.9	0.034	0.022	29
1728	2230	YELLOW PICKEREL	20	20	26	498	2.9	0.040	0.040	25
1729	2231	POOLED	1	1	2	20	3.0	0.049	0.049	20
1730	2231	COHO SALMON	0	0	2	20	3.0	0.000	0.000	.
1731	2231	WHITE BASS	1	1	2	20	3.0	0.049	0.049	20
1732	2240	POOLED	11	5	7	61	2.6	0.181	0.082	6
1733	2240	COHO SALMON	3	3	7	61	2.6	0.049	0.049	20
1734	2240	FRESHWATER DRUM	5	0	7	61	2.6	0.082	0.000	12
1735	2240	RAINBOW TROUT	3	2	7	61	2.6	0.049	0.033	20
1736	2241	POOLED	1	1	1	31	3.0	0.033	0.033	31
1737	2241	RAINBOW TROUT	1	1	1	31	3.0	0.033	0.033	31
1738	2242	POOLED	45	45	2	72	6.0	0.625	0.625	2
1739	2242	FRESHWATER DRUM	1	1	2	72	6.0	0.014	0.014	72
1740	2242	WHITE BASS	9	9	2	72	6.0	0.125	0.125	8
1741	2242	YELLOW PICKEREL	35	35	2	72	6.0	0.486	0.486	2
1742	2243	POOLED	95	95	5	132	4.8	0.720	0.720	1
1743	2243	ATLANTIC SALMON	1	1	5	132	4.8	0.008	0.008	132
1744	2243	WHITE BASS	3	3	5	132	4.8	0.023	0.023	44
1745	2243	YELLOW PICKEREL	91	91	5	132	4.8	0.689	0.689	1
1746	2252	POOLED	116	116	5	168	5.6	0.690	0.690	1
1747	2252	CHINOOK	1	1	5	168	5.6	0.006	0.006	168
1748	2252	COHO SALMON	3	3	5	168	5.6	0.018	0.018	56
1749	2252	FRESHWATER DRUM	2	2	5	168	5.6	0.012	0.012	84
1750	2252	WHITE BASS	17	17	5	168	5.6	0.101	0.101	10
1751	2252	YELLOW PICKEREL	93	93	5	168	5.6	0.554	0.554	2
1752	2253	POOLED	26	26	1	30	5.0	0.867	0.867	1
1753	2253	WHITE BASS	1	1	1	30	5.0	0.033	0.033	30
1754	2253	YELLOW PICKEREL	25	25	1	30	5.0	0.833	0.833	1
1755	2255	POOLED	36	29	4	79	4.3	0.459	0.369	2
1756	2255	FRESHWATER DRUM	7	0	4	79	4.3	0.089	0.000	11
1757	2255	WHITE BASS	10	10	4	79	4.3	0.127	0.127	8
1758	2255	YELLOW PICKEREL	19	19	4	79	4.3	0.242	0.242	4
1759	2257	POOLED	15	14	1	23	5.0	0.667	0.489	2
1760	2257	FRESHWATER DRUM	8	4	1	23	5.0	0.356	0.178	3

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1761	2257	YELLOW PICKEREL	7	7	1	23	5.0	0.311	0.311	3
1762	2268	POOLED	0	0	1	28	4.0	0.000	0.000	.
1763	2269	COHO SALMON	0	0	1	28	4.0	0.000	0.000	.
1764	2265	POOLED	13	12	3	51	3.0	0.257	0.238	4
1765	2265	COHO SALMON	3	3	3	51	3.0	0.059	0.059	17
1766	2265	FRESHWATER DRUM	2	1	3	51	3.0	0.040	0.020	25
1767	2265	RAINBOW TROUT	3	3	3	51	3.0	0.059	0.059	17
1768	2265	YELLOW PICKEREL	5	5	3	51	3.0	0.099	0.099	10
1769	2266	POOLED	19	19	6	56	2.2	0.339	0.339	3
1770	2266	COHO SALMON	2	2	6	56	2.2	0.036	0.036	28
1771	2266	RAINBOW TROUT	1	1	6	56	2.2	0.018	0.018	56
1772	2266	YELLOW PICKEREL	10	10	6	56	2.2	0.286	0.286	4
1773	2267	POOLED	17	16	12	115	2.7	0.148	0.140	7
1774	2267	COHO SALMON	4	3	12	115	2.7	0.035	0.026	29
1775	2267	RAINBOW TROUT	3	3	12	115	2.7	0.026	0.026	38
1776	2267	WHITE BASS	1	1	12	115	2.7	0.009	0.009	115
1777	2267	WHITE PERCH	1	1	12	115	2.7	0.009	0.009	115
1778	2267	YELLOW PICKEREL	8	8	12	115	2.7	0.070	0.070	14
1779	2268	POOLED	34	24	10	120	2.0	0.283	0.200	4
1780	2268	COHO SALMON	22	15	10	120	2.0	0.183	0.125	5
1781	2268	FRESHWATER DRUM	3	0	10	120	2.0	0.025	0.000	40
1782	2268	RAINBOW TROUT	1	1	10	120	2.0	0.008	0.008	120
1783	2268	YELLOW PICKEREL	8	8	10	120	2.0	0.067	0.067	15
1784	2269	POOLED	11	10	6	64	2.0	0.172	0.156	6
1785	2269	COHO SALMON	2	2	6	64	2.0	0.031	0.031	32
1786	2269	FRESHWATER DRUM	1	1	6	64	2.0	0.016	0.016	64
1787	2269	RAINBOW TROUT	5	5	6	64	2.0	0.078	0.078	13
1788	2269	WHITE BASS	1	0	6	64	2.0	0.016	0.000	64
1789	2269	YELLOW PICKEREL	2	2	6	64	2.0	0.031	0.031	32
1790	2270	POOLED	0	0	1	10	2.0	0.000	0.000	.
1791	2270	SMALLMOUTH BASS	0	0	1	10	2.0	0.000	0.000	.
1792	2275	POOLED	5	2	2	30	2.0	0.167	0.067	6
1793	2275	COHO SALMON	0	0	2	30	2.0	0.000	0.000	.
1794	2275	FRESHWATER DRUM	2	0	2	30	2.0	0.067	0.000	15
1795	2275	RAINBOW SMELT	1	0	2	30	2.0	0.033	0.000	30
1796	2275	RAINBOW TROUT	1	1	2	30	2.0	0.033	0.033	30
1797	2275	YELLOW PICKEREL	1	1	2	30	2.0	0.033	0.033	30
1798	2276	POOLED	10	7	6	87	3.2	0.115	0.080	9
1799	2276	COHO SALMON	2	2	6	87	3.2	0.023	0.023	44
1800	2276	FRESHWATER DRUM	2	0	6	87	3.2	0.023	0.000	44
1801	2276	RAINBOW TROUT	1	1	6	87	3.2	0.011	0.011	87
1802	2276	WHITE BASS	1	0	6	87	3.2	0.011	0.000	87
1803	2276	YELLOW PICKEREL	4	4	6	87	3.2	0.046	0.046	22
1804	2277	POOLED	96	86	53	468	1.9	0.205	0.184	5
1805	2277	CHINOOK	0	0	53	468	1.9	0.000	0.000	.
1806	2277	COHO SALMON	15	12	53	468	1.9	0.032	0.026	31
1807	2277	FRESHWATER DRUM	2	0	53	468	1.9	0.004	0.000	234
1808	2277	RAINBOW TROUT	7	4	53	468	1.9	0.015	0.013	67
1809	2277	WHITE BASS	8	8	53	468	1.9	0.017	0.009	59
1810	2277	YELLOW PERCH	36	36	53	468	1.9	0.077	0.077	13
1811	2277	YELLOW PICKEREL	28	28	53	468	1.9	0.060	0.060	17
1812	2278	POOLED	56	44	25	424	2.9	0.132	0.104	8

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1813	2278	COHO SALMON	27	23	25	424	2.9	0.064	0.054	16
1814	2278	FRESHWATER DRUM	1	0	25	424	2.9	0.002	0.000	424
1815	2278	RAINBOW TROUT	11	10	25	424	2.9	0.026	0.024	39
1816	2278	YELLOW PICKEREL	17	11	25	424	2.9	0.040	0.026	25
1817	2279	POOLED	25	17	14	107	2.6	0.235	0.160	4
1818	2279	CHINOOK	1	1	14	107	2.6	0.009	0.009	107
1819	2279	COHO SALMON	3	2	14	107	2.6	0.028	0.019	36
1820	2279	FRESHWATER DRUM	6	0	14	107	2.6	0.056	0.000	18
1821	2279	RAINBOW TROUT	4	3	14	107	2.6	0.038	0.028	27
1822	2279	WHITE BASS	4	4	14	107	2.6	0.038	0.038	27
1823	2279	YELLOW PICKEREL	7	7	14	107	2.6	0.066	0.066	15
1824	2360	POOLED	5	3	1	20	4.0	0.250	0.150	4
1825	2360	COHO SALMON	1	1	1	20	4.0	0.050	0.050	20
1826	2360	FRESHWATER DRUM	4	2	1	20	4.0	0.200	0.100	5

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2103	POOLED	POOLED	97	66	30	392	2.6	0.248	0.169	4
2104	POOLED	CHINOOK	0	0	30	392	2.6	0.000	0.000	.
2105	POOLED	COHO SALMON	3	3	30	392	2.6	0.008	0.008	131
2106	POOLED	FRESHWATER DRUM	32	3	30	392	2.6	0.082	0.008	12
2107	POOLED	RAINBOW TROUT	3	3	30	392	2.6	0.008	0.008	131
2108	POOLED	SMALLMOUTH BASS	0	0	30	392	2.6	0.000	0.000	.
2109	POOLED	WHITE BASS	15	13	30	392	2.6	0.038	0.033	26
2110	POOLED	YELLOW PICKEREL	44	44	30	392	2.6	0.112	0.112	9
2111	1189	POOLED	8	5	1	12	2.0	0.667	0.417	2
2112	1189	COHO SALMON	2	2	1	12	2.0	0.167	0.167	6
2113	1189	FRESHWATER DRUM	1	0	1	12	2.0	0.083	0.000	12
2114	1189	WHITE BASS	2	0	1	12	2.0	0.167	0.000	6
2115	1189	YELLOW PICKEREL	3	3	1	12	2.0	0.250	0.250	4
2116	1193	POOLED	2	0	2	4	1.0	0.500	0.000	2
2117	1193	FRESHWATER DRUM	2	0	2	4	1.0	0.500	0.000	2
2118	1193	YELLOW PICKEREL	0	0	2	4	1.0	0.000	0.000	.
2119	1197	POOLED	4	4	1	24	3.0	0.167	0.167	6
2120	1197	COHO SALMON	1	1	1	24	3.0	0.042	0.042	24
2121	1197	YELLOW PICKEREL	3	3	1	24	3.0	0.125	0.125	8
2122	2127	POOLED	5	0	2	15	2.0	0.333	0.000	3
2123	2127	FRESHWATER DRUM	5	0	2	15	2.0	0.333	0.000	3
2124	2129	POOLED	3	0	3	29	2.3	0.103	0.000	10
2125	2129	COHO SALMON	0	0	3	29	2.3	0.000	0.000	.
2126	2129	FRESHWATER DRUM	3	0	3	29	2.3	0.103	0.000	10
2127	2139	POOLED	2	0	2	12	1.5	0.174	0.000	6
2128	2139	COHO SALMON	0	0	2	12	1.5	0.000	0.000	.
2129	2139	FRESHWATER DRUM	2	0	2	12	1.5	0.174	0.000	6
2130	2230	POOLED	1	0	2	32	2.5	0.031	0.000	32
2131	2230	COHO SALMON	0	0	2	32	2.5	0.000	0.000	.
2132	2230	FRESHWATER DRUM	1	0	2	32	2.5	0.031	0.000	32
2133	2231	POOLED	6	6	1	6	3.0	1.000	1.000	1
2134	2231	YELLOW PICKEREL	6	6	1	6	3.0	1.000	1.000	1
2135	2233	POOLED	28	28	1	36	6.0	0.778	0.778	1

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2136	2233	WHITE BASS	8	8	1	36	6.0	0.222	0.222	5
2137	2233	YELLOW PICKEREL	20	20	1	36	6.0	0.556	0.556	2
2138	2234	POOLED	6	5	1	6	4.0	1.333	0.833	1
2139	2234	FRESHWATER DRUM	3	0	1	6	4.0	0.500	0.000	2
2140	2234	YELLOW PICKEREL	5	5	1	6	4.0	0.833	0.833	1
2141	2240	POOLED	2	1	2	15	2.5	0.133	0.067	8
2142	2240	COHO SALMON	0	0	2	15	2.5	0.000	0.000	.
2143	2240	FRESHWATER DRUM	1	0	2	15	2.5	0.067	0.000	15
2144	2240	YELLOW PICKEREL	1	1	2	15	2.5	0.067	0.067	15
2145	2241	POOLED	0	0	1	54	6.0	0.000	0.000	.
2146	2241	CHINOOK	0	0	1	54	6.0	0.000	0.000	.
2147	2241	COHO SALMON	0	0	1	54	6.0	0.000	0.000	.
2148	2241	YELLOW PICKEREL	0	0	1	54	6.0	0.000	0.000	.
2149	2242	POOLED	5	5	1	3	2.0	1.667	1.667	1
2150	2242	YELLOW PICKEREL	5	5	1	3	2.0	1.667	1.667	1
2151	2264	POOLED	6	0	1	16	2.0	0.375	0.000	3
2152	2264	FRESHWATER DRUM	6	0	1	16	2.0	0.375	0.000	3
2153	2265	POOLED	2	2	1	10	2.0	0.200	0.200	5
2154	2265	WHITE BASS	2	2	1	10	2.0	0.200	0.200	5
2155	2267	POOLED	6	4	1	12	4.0	0.500	0.333	2
2156	2267	FRESHWATER DRUM	2	0	1	12	4.0	0.167	0.000	6
2157	2267	WHITE BASS	3	3	1	12	4.0	0.250	0.250	4
2158	2267	YELLOW PICKEREL	1	1	1	12	4.0	0.083	0.083	12
2159	2268	POOLED	1	1	1	16	2.0	0.063	0.063	16
2160	2268	RAINBOW TROUT	1	1	1	16	2.0	0.063	0.063	16
2161	2269	POOLED	0	0	2	40	3.0	0.000	0.000	.
2162	2269	COHO SALMON	0	0	2	40	3.0	0.000	0.000	.
2163	2277	POOLED	0	0	2	28	2.5	0.000	0.000	.
2164	2277	COHO SALMON	0	0	2	28	2.5	0.000	0.000	.
2165	2361	POOLED	8	5	1	16	4.0	0.500	0.313	2
2166	2361	FRESHWATER DRUM	6	3	1	16	4.0	0.375	0.188	3
2167	2361	RAINBOW TROUT	2	2	1	16	4.0	0.125	0.125	8
2168	2367	POOLED	0	0	1	6	2.0	0.000	0.000	.
2169	2367	SMALLMOUTH BASS	0	0	1	6	2.0	0.000	0.000	.

INSTRUCTIONS

The Ontario Ministry of Natural Resources would like to thank you for your cooperation in completing this angler's diary. The information that you are providing on the fish caught by your boat will help us evaluate the success of our fisheries management programme. Please don't forget to tell us about those trips when no fish are landed so we can get a true picture of the quality of fishing in your area. Information on fishing depths, temperatures, weather and lures will help anglers improve their techniques for locating fish at various times of year.

Below you will find an explanation of the information that is required. Please fill in a page for each fishing trip or charter. If more space is needed to record fish caught use the next page and indicate that it is the same trip. Additional comments may be recorded on the adjoining pages to the left of the trip records.

Date: Always fill in to indicate a fishing trip or charter. If more room is needed to record number of fish go to the next page and indicate same trip number.

Trip Number: If more than one trip is made in the day, number them here.

A) Fishing Activity:

Area Fished: Enter four digit area code from grid maps found on inside front and back covers.

Time fishing started: Record time lines entered water (include a.m. or p.m.).

Time fishing ended: Record time lines removed from water (include a.m. or p.m.).

Number of lines: Record number of lines fishing.

Check here if no fish taken: If no fish were caught, check here.

B) Fishing Conditions:

Surface water temperature: Indicate surface water temperature at start of fishing trip in °. Circle units (farhenheit or celcius).

Depth of Thermocline: Indicate themocline depth in ft.

Wind speed and direction: Indicate wind speed (nil, 5, 10, 15, 20 mph, etc.) and direction from which wind is blowing.

Cloud cover: Classify as: sunny, partly overcast, overcast.

Precipitation: Classify as: none, light rain, heavy rain, fog.

***N.B.*:** The above sections should be completed whether fish are caught or not.

C) Fish Caught **D) Samples**

Species: Enter species name for each fish caught, whether kept or released. Do not include those fish which are lost before being brought on board.

No. Kept/No. Released: Enter numbers of fish of each species kept or released.

Lure/Bait: Indicate type and colour of lure or bait.

Depth-total: Indicate water depth to the bottom in ft.

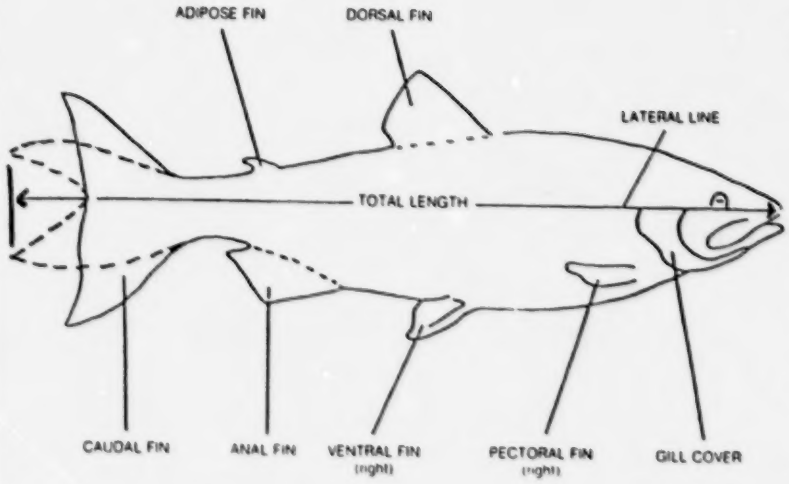
Depth-fish: Indicate water depth at which fish was caught.

Total Length: Record length in inches for each fish as shown in the diagram on the next page.

Total Weight: Enter weight in pounds and ounces when available.

Fin clip: Record the fin clip in this column according to the abbreviations listed below the table. Fin names and locations are illustrated on next page.

RIGHT SIDE OF A SALMONID



Fin Clips. In order to tell which type of fin clip a fish has, point the fish as if it were swimming in the direction you are facing. The right and left sides of the fish now correspond to your right and left sides. Some fish have more than one fin clip so make sure you check all five fins and record all those clipped. Some fin clips may be hard to recognize if they have grown back in. To make sure, compare the two paired fins (ventrals and pectorals). If one fin is shorter, narrower, crooked or shows fracture marks then it is considered to be a fin clip and should be recorded.

PLEASE COMPLETE SECTIONS A & B FOR ALL TRIPS WHETHER FISH ARE CAUGHT OR NOT.

Date: June 4/84

Trip Number: 2

A) Fishing Activity:

Area fished: 2129

Time fishing started: 8:30 AM

Time fishing ended: 2:00 PM

Number of lines: 4

Check here if no fish taken: _____

B) Fishing Conditions:

Surface water temperature: 14 °F/(C)

Depth of thermocline: 30 ft

Wind speed & direction: E-15 mph

Cloud cover: partly overcast

Precipitation: none

C) Fish Caught

	Species	No Kept	No Released	Lure/Bait	Depth (ft) Total	Depth (ft) Fish	Comments*
1	Rainbow trout	2	1	silver rapala	50	28	1 lamprey wound
2	Coho salmon	1	0	silver rapala	50	28	
3	Walleye	1	0	silver rapala	50	28	
4							
5							
6							

SAMPLE

D) Samples (Optional)

	Species	Total Length (in)	Total Weight (lb/oz)	Fin Clip	Comments*
1	Rainbow trout	23	3	AD	lamprey wound
2					
3					
4					
5					

Clip Abbreviations: RV = Right Ventral, RP = Right Pectoral, AD = Adipose, LV = Left Ventral, LP = Left Pectoral, NC = no clip, 0 = Other

* Record the number of fish observed with a single lamprey wound or any other relevant information

PLEASE COMPLETE SECTIONS A & B FOR ALL TRIPS WHETHER FISH ARE CAUGHT OR NOT.

Date: _____

Trip Number: _____

A) Fishing Activity:

Area fished: _____

Time fishing started: _____

Time fishing ended: _____

Number of lines: _____

Check here if no fish taken: _____

B) Fishing Conditions:

Surface water temperature: _____ °F/C

Depth of thermocline: _____ ft

Wind speed & direction: _____

Cloud cover: _____

Precipitation: _____

C) Fish Caught

	Species	No Kept	No Released	Lure/Bait	Depth (ft) Total	Depth (ft) Fish	Comments*
1							
2							
3							
4							
5							
6							

D) Samples (Optional)

	Species	Total Length (in)	Total Weight (lb oz)	Fin Clip	Comments*
1					
2					
3					
4					
5					

Clip Abbreviations: RV = Right Ventral, RP = Right Pectoral, AD = Adipose, LV = Left Ventral, LP = Left Pectoral, NC = no clip, 0 = Other

* Record the number of fish observed with a single lamprey wound or any other relevant information

Appendix B.2. Required angler diary trip information with an example of a completed form.